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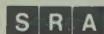
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Add.

	a	b	c
1.	$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$	$\begin{array}{r} 4 \\ +1 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$
2.	$\begin{array}{r} 1 \\ +2 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ +2 \\ \hline 6 \end{array}$	$\begin{array}{r} 0 \\ +0 \\ \hline 0 \end{array}$
3.	$\begin{array}{r} 5 \\ +3 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ +5 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ +2 \\ \hline 5 \end{array}$
4.	$\begin{array}{r} 4 \\ +5 \\ \hline 9 \end{array}$	$\begin{array}{r} 0 \\ +3 \\ \hline 3 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$

	a	b	c
5.	$\begin{array}{r} 3 \\ +8 \\ \hline 11 \end{array}$	$\begin{array}{r} 6 \\ +5 \\ \hline 11 \end{array}$	$\begin{array}{r} 7 \\ +1 \\ \hline 8 \end{array}$
6.	$\begin{array}{r} 5 \\ +9 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ +0 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ +6 \\ \hline 7 \end{array}$
7.	$\begin{array}{r} 4 \\ +7 \\ \hline 11 \end{array}$	$\begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array}$	$\begin{array}{r} 8 \\ +3 \\ \hline 11 \end{array}$
8.	$\begin{array}{r} 9 \\ +5 \\ \hline 14 \end{array}$	$\begin{array}{r} 1 \\ +7 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ +6 \\ \hline 9 \end{array}$

	a	b	c
9.	$\begin{array}{r} 0 \\ +7 \\ \hline 7 \end{array}$	$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ +6 \\ \hline 11 \end{array}$
10.	$\begin{array}{r} 9 \\ +1 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ +2 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array}$
11.	$\begin{array}{r} 6 \\ +4 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +9 \\ \hline 13 \end{array}$	$\begin{array}{r} 9 \\ +0 \\ \hline 9 \end{array}$
12.	$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ +4 \\ \hline 11 \end{array}$	$\begin{array}{r} 3 \\ +9 \\ \hline 12 \end{array}$

	a	b	c
13.	$\begin{array}{r} 7 \\ +8 \\ \hline 15 \end{array}$	$\begin{array}{r} 6 \\ +6 \\ \hline 12 \end{array}$	$\begin{array}{r} 9 \\ +7 \\ \hline 16 \end{array}$
14.	$\begin{array}{r} 9 \\ +8 \\ \hline 17 \end{array}$	$\begin{array}{r} 8 \\ +6 \\ \hline 14 \end{array}$	$\begin{array}{r} 6 \\ +9 \\ \hline 15 \end{array}$
15.	$\begin{array}{r} 8 \\ +8 \\ \hline 16 \end{array}$	$\begin{array}{r} 7 \\ +7 \\ \hline 14 \end{array}$	$\begin{array}{r} 9 \\ +6 \\ \hline 15 \end{array}$
16.	$\begin{array}{r} 7 \\ +9 \\ \hline 16 \end{array}$	$\begin{array}{r} 9 \\ +9 \\ \hline 18 \end{array}$	$\begin{array}{r} 8 \\ +7 \\ \hline 15 \end{array}$

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Add.

a	b	c	d	e	f
1. $\begin{array}{r} 7 \\ 4 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 2 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ 1 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 6 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ 8 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ 1 \\ + 2 \\ \hline \end{array}$
$\underline{14}$	$\underline{15}$	$\underline{16}$	$\underline{18}$	$\underline{13}$	$\underline{12}$

2. $\begin{array}{r} 3 \\ 0 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 6 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ 3 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 3 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 6 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 4 \\ + 5 \\ \hline \end{array}$
$\underline{11}$	$\underline{18}$	$\underline{15}$	$\underline{12}$	$\underline{16}$	$\underline{16}$

Find the answers. Watch out!

- |   |  |
|---|--|
| 3. 13 marbles.<br>He lost 5.<br>How many remain? <u>8</u>                                 | 4. 7 balloons.<br>9 more balloons.<br>How many in all? <u>16</u>                               |
| 5. 3 fish are striped.<br>8 are plain.<br>How many fish in all? <u>11</u>                 | 6. 6 large shirts.<br>5 small shirts.<br>5 medium shirts.<br>How many shirts in all? <u>16</u> |
| 7. 2 red marbles.<br>9 yellow marbles.<br>4 green marbles.<br>How many marbles? <u>15</u> | 8. 11 kites.<br>7 were torn.<br>How many remain? <u>4</u>                                      |
| 9. 6 tabby cats.<br>9 black cats.<br>How many in all? <u>15</u>                           | 10. 14 dogs.<br>5 ran away.<br>How many remain? <u>9</u>                                       |

Subtract.

**a**

$$\begin{array}{r} 1. \quad 5 \\ - 2 \\ \hline 3 \end{array}$$

**b**

$$\begin{array}{r} 7 \\ - 2 \\ \hline 5 \end{array}$$

**c**

$$\begin{array}{r} 3 \\ - 1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 2. \quad 4 \\ - 2 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 6 \\ - 5 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 3. \quad 8 \\ - 5 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 4 \\ - 3 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 4. \quad 4 \\ - 0 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 0 \\ - 0 \\ \hline 0 \end{array}$$

**a**

$$\begin{array}{r} 5. \quad 10 \\ - 2 \\ \hline 8 \end{array}$$

**b**

$$\begin{array}{r} 12 \\ - 8 \\ \hline 4 \end{array}$$

**c**

$$\begin{array}{r} 8 \\ - 7 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 6. \quad 11 \\ - 4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 14 \\ - 5 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 12 \\ - 9 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 7. \quad 8 \\ - 0 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 11 \\ - 5 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 12 \\ - 7 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 8. \quad 9 \\ - 9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 11 \\ - 3 \\ \hline 8 \end{array}$$

**a**

$$\begin{array}{r} 9. \quad 9 \\ - 3 \\ \hline 6 \end{array}$$

**b**

$$\begin{array}{r} 10 \\ - 8 \\ \hline 2 \end{array}$$

**c**

$$\begin{array}{r} 12 \\ - 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 10. \quad 11 \\ - 8 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 11. \quad 9 \\ - 2 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 13 \\ - 5 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 11 \\ - 7 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 12. \quad 13 \\ - 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 13 \\ - 9 \\ \hline 4 \end{array}$$

**a**

$$\begin{array}{r} 13. \quad 13 \\ - 6 \\ \hline 7 \end{array}$$

**b**

$$\begin{array}{r} 15 \\ - 7 \\ \hline 8 \end{array}$$

**c**

$$\begin{array}{r} 16 \\ - 9 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 14. \quad 14 \\ - 8 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 17 \\ - 9 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 15. \quad 12 \\ - 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 14 \\ - 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 16. \quad 15 \\ - 9 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 18 \\ - 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline 8 \end{array}$$



$$\begin{array}{r} 32 \\ + 15 \\ \hline 47 \end{array}$$

First write how many ones.

Then write how many tens.

Now you know how many in all.

Add.

a

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 3 & 0 \\ + 5 & 0 \\ \hline 8 & 0 \end{array}$$

b

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 6 & 0 \\ + 1 & 0 \\ \hline 7 & 0 \end{array}$$

c

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 7 & 0 \\ + 1 & 0 \\ \hline 8 & 0 \end{array}$$

d

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 1 & 0 \\ + 4 & 0 \\ \hline 5 & 0 \end{array}$$

e

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 3 & 0 \\ + 6 & 0 \\ \hline 9 & 0 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 1 & 0 \\ 3 & 0 \\ + 4 & 0 \\ \hline 8 & 0 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 4 & 0 \\ 2 & 0 \\ + 2 & 0 \\ \hline 8 & 0 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 1 & 0 \\ 4 & 0 \\ + 2 & 0 \\ \hline 7 & 0 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 1 & 0 \\ 7 & 0 \\ + 1 & 0 \\ \hline 9 & 0 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 5 & 0 \\ 1 & 0 \\ + 2 & 0 \\ \hline 8 & 0 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 4 & 9 \\ + 1 & 0 \\ \hline 5 & 9 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 1 & 5 \\ + 4 & 3 \\ \hline 5 & 8 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 1 & 2 \\ + 7 & 4 \\ \hline 8 & 6 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 3 & 1 \\ + 4 & 7 \\ \hline 7 & 8 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 1 & 1 \\ + 3 & 8 \\ \hline 4 & 9 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 2 & 2 \\ + 7 & 6 \\ \hline 9 & 8 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 3 & 1 \\ + 5 & 1 \\ \hline 8 & 2 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 8 & 6 \\ + 1 & 0 \\ \hline 9 & 6 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 2 & 4 \\ + 7 & 5 \\ \hline 9 & 9 \end{array}$$

$$\begin{array}{r|l} \text{tens} & \text{ones} \\ 2 & 1 \\ + 6 & 6 \\ \hline 8 & 7 \end{array}$$

Try these.

5. 30 boys.

40 girls.

How many boys and girls? 70

6. 20 red balls.

30 green balls.

40 yellow balls.

How many in all? 90

7. You have 45.

I have 51.

How many all together? 96

8. 26 in a box.

42 in a bag.

How many in all? 68



Add.

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 5 \quad 4 \\
 + 1 \quad 6 \\
 \hline
 1 \quad 0 \quad \leftarrow \text{First add the ones.} \\
 6 \quad 0 \quad \leftarrow \text{Then add the tens.} \\
 \hline
 7 \quad 0 \quad \leftarrow \text{Write how many in all.}
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 3 \quad 8 \\
 + 2 \quad 6 \\
 \hline
 1 \quad 4 \\
 5 \quad 0 \\
 \hline
 6 \quad 4
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 5 \quad 3 \\
 + 3 \quad 7 \\
 \hline
 1 \quad 0 \\
 8 \quad 0 \\
 \hline
 9 \quad 0
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 2 \quad 8 \\
 + 3 \quad 5 \\
 \hline
 1 \quad 3 \\
 5 \quad 0 \\
 \hline
 6 \quad 3
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 5 \quad 6 \\
 + 1 \quad 7 \\
 \hline
 1 \quad 3 \\
 6 \quad 0 \\
 \hline
 7 \quad 3
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 1 \quad 3 \\
 + 7 \quad 8 \\
 \hline
 1 \quad 1 \\
 8 \quad 0 \\
 \hline
 9 \quad 1
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 2 \quad 9 \\
 + 3 \quad 9 \\
 \hline
 1 \quad 8 \\
 5 \quad 0 \\
 \hline
 6 \quad 8
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 2 \quad 7 \\
 + 4 \quad 4 \\
 \hline
 1 \quad 1 \\
 6 \quad 0 \\
 \hline
 7 \quad 1
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 1 \quad 9 \\
 + 5 \quad 7 \\
 \hline
 1 \quad 6 \\
 6 \quad 0 \\
 \hline
 7 \quad 6
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 4 \quad 7 \\
 + 2 \quad 3 \\
 \hline
 1 \quad 0 \\
 6 \quad 0 \\
 \hline
 7 \quad 0
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 5 \quad 8 \\
 + 2 \quad 3 \\
 \hline
 1 \quad 1 \\
 7 \quad 0 \\
 \hline
 8 \quad 1
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 4 \quad 4 \\
 + 1 \quad 8 \\
 \hline
 1 \quad 2 \\
 5 \quad 0 \\
 \hline
 6 \quad 2
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 6 \quad 9 \\
 + 2 \quad 1 \\
 \hline
 1 \quad 0 \\
 8 \quad 0 \\
 \hline
 9 \quad 0
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 3 \quad 5 \\
 + 4 \quad 9 \\
 \hline
 1 \quad 4 \\
 7 \quad 0 \\
 \hline
 8 \quad 4
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 1 \quad 6 \\
 + 6 \quad 4 \\
 \hline
 1 \quad 0 \\
 7 \quad 0 \\
 \hline
 8 \quad 0
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 2 \quad 2 \\
 + 4 \quad 8 \\
 \hline
 1 \quad 0 \\
 6 \quad 0 \\
 \hline
 7 \quad 0
 \end{array}$$

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 3 \quad 7 \\
 + 5 \quad 3 \\
 \hline
 1 \quad 0 \\
 8 \quad 0 \\
 \hline
 9 \quad 0
 \end{array}$$

17. Paula had 4 boxes of ten and 6 more.

Paul had 2 boxes of ten and 8 more.

How many did they have in all? 74



Subtract.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 5 \quad 6 \\ - 3 \quad 1 \\ \hline 2 \quad 5 \end{array}
 \end{array}$$

← Subtract the ones.

← Subtract the tens.

a

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 4 \quad 0 \\ - 1 \quad 0 \\ \hline 3 \quad 0 \end{array}
 \end{array}$$

b

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 7 \quad 0 \\ - 5 \quad 0 \\ \hline 2 \quad 0 \end{array}
 \end{array}$$

c

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 9 \quad 2 \\ - 6 \quad 0 \\ \hline 3 \quad 2 \end{array}
 \end{array}$$

d

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 8 \quad 8 \\ - 3 \quad 0 \\ \hline 5 \quad 8 \end{array}
 \end{array}$$

e

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 3 \quad 8 \\ - 2 \quad 6 \\ \hline 1 \quad 2 \end{array}
 \end{array}$$

Subtract.

1.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 8 \quad 3 \\ - 1 \quad 2 \\ \hline 7 \quad 1 \end{array}
 \end{array}$$

2.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 7 \quad 3 \\ - 5 \quad 1 \\ \hline 2 \quad 2 \end{array}
 \end{array}$$

3.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 4 \quad 6 \\ - 1 \quad 5 \\ \hline 3 \quad 1 \end{array}
 \end{array}$$

4.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 3 \quad 4 \\ - 3 \quad 2 \\ \hline 2 \end{array}
 \end{array}$$

5.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 9 \quad 7 \\ - 8 \quad 1 \\ \hline 1 \quad 6 \end{array}
 \end{array}$$

6.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 6 \quad 3 \\ - 2 \quad 3 \\ \hline 4 \quad 0 \end{array}
 \end{array}$$

7.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 6 \quad 7 \\ - 6 \quad 3 \\ \hline 4 \end{array}
 \end{array}$$

8.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 9 \quad 9 \\ - 2 \quad 7 \\ \hline 7 \quad 2 \end{array}
 \end{array}$$

9.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 7 \quad 9 \\ - 1 \quad 9 \\ \hline 6 \quad 0 \end{array}
 \end{array}$$

10.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 6 \quad 5 \\ - 5 \quad 4 \\ \hline 1 \quad 1 \end{array}
 \end{array}$$

11.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 4 \quad 3 \\ - 2 \quad 1 \\ \hline 2 \quad 2 \end{array}
 \end{array}$$

12.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 8 \quad 9 \\ - 3 \quad 7 \\ \hline 5 \quad 2 \end{array}
 \end{array}$$

13.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 6 \quad 8 \\ - 6 \quad 0 \\ \hline 8 \end{array}
 \end{array}$$

14.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 9 \quad 7 \\ - 4 \quad 6 \\ \hline 5 \quad 1 \end{array}
 \end{array}$$

15.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 9 \quad 8 \\ - 4 \quad 2 \\ \hline 5 \quad 6 \end{array}
 \end{array}$$

16.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 9 \quad 7 \\ - 6 \quad 3 \\ \hline 3 \quad 4 \end{array}
 \end{array}$$

17.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 7 \quad 3 \\ - 5 \quad 2 \\ \hline 2 \quad 1 \end{array}
 \end{array}$$

18.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 5 \quad 4 \\ - 4 \quad 0 \\ \hline 1 \quad 4 \end{array}
 \end{array}$$

19.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 9 \quad 5 \\ - 1 \quad 3 \\ \hline 8 \quad 2 \end{array}
 \end{array}$$

20.

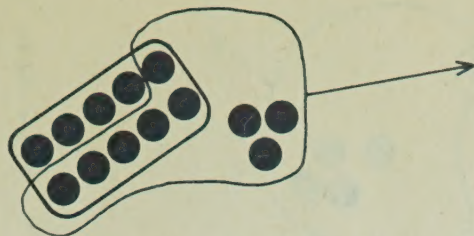
$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 8 \quad 8 \\ - 5 \quad 4 \\ \hline 3 \quad 4 \end{array}
 \end{array}$$

21.

$$\begin{array}{r}
 \begin{array}{c} \text{t} \quad \text{o} \\ 7 \quad 5 \\ - 3 \quad 4 \\ \hline 4 \quad 1 \end{array}
 \end{array}$$



Rename. Then subtract.



$$\begin{array}{r} 1 \ 13 \\ 2 \ 3 \\ - \ 9 \\ \hline 1 \ 4 \end{array}$$

First rename.  
Then subtract.

a

$$\begin{array}{r} 2 \ 13 \\ 3 \ 3 \\ - \ 7 \\ \hline 2 \ 6 \end{array}$$

b

$$\begin{array}{r} 3 \ 12 \\ 4 \ 2 \\ - \ 5 \\ \hline 3 \ 7 \end{array}$$

c

$$\begin{array}{r} 1 \ 15 \\ 2 \ 5 \\ - \ 6 \\ \hline 1 \ 9 \end{array}$$

d

$$\begin{array}{r} 5 \ 10 \\ 6 \ 0 \\ - \ 7 \\ \hline 5 \ 3 \end{array}$$

e

$$\begin{array}{r} 3 \ 18 \\ 4 \ 8 \\ - \ 9 \\ \hline 3 \ 9 \end{array}$$

2.

$$\begin{array}{r} 7 \ 16 \\ 8 \ 6 \\ - \ 8 \\ \hline 7 \ 8 \end{array}$$

$$\begin{array}{r} 2 \ 15 \\ 3 \ 5 \\ - \ 6 \\ \hline 2 \ 9 \end{array}$$

$$\begin{array}{r} 3 \ 14 \\ 4 \ 4 \\ - \ 9 \\ \hline 3 \ 5 \end{array}$$

$$\begin{array}{r} 5 \ 10 \\ 6 \ 0 \\ - \ 3 \\ \hline 5 \ 7 \end{array}$$

$$\begin{array}{r} 8 \ 13 \\ 9 \ 3 \\ - \ 7 \\ \hline 8 \ 6 \end{array}$$

3.

$$\begin{array}{r} 4 \ 11 \\ 5 \ 1 \\ - \ 6 \\ \hline 4 \ 5 \end{array}$$

$$\begin{array}{r} 3 \ 13 \\ 4 \ 3 \\ - \ 8 \\ \hline 3 \ 5 \end{array}$$

$$\begin{array}{r} 1 \ 16 \\ 2 \ 6 \\ - \ 7 \\ \hline 1 \ 9 \end{array}$$

$$\begin{array}{r} 7 \ 12 \\ 8 \ 2 \\ - \ 7 \\ \hline 7 \ 5 \end{array}$$

$$\begin{array}{r} 6 \ 10 \\ 7 \ 0 \\ - \ 6 \\ \hline 6 \ 4 \end{array}$$

4. 30 birds.

8 flew away.

How many remain? 22

5. 44 children.

9 left.

How many remain? 35

6. 51 stamps.

You use 6.

How many remain? 45

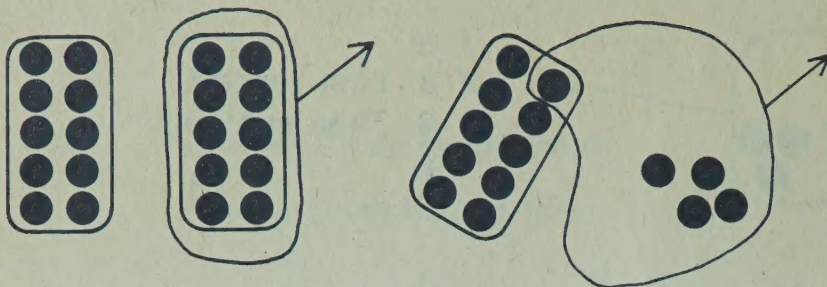
7. 73 fish.

6 were caught.

How many remain? 67



Rename. Then subtract.



$$\begin{array}{r} \text{t} \quad \text{o} \\ 2 \quad 14 \\ - 3 \quad 4 \\ \hline - 1 \quad 5 \\ 1 \quad 9 \end{array}$$

1. **a**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 6 \quad 14 \\ - 7 \quad 4 \\ \hline - 4 \quad 5 \\ 2 \quad 9 \end{array}$$

**b**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 6 \quad 11 \\ - 7 \quad 1 \\ \hline - 5 \quad 8 \\ 1 \quad 3 \end{array}$$

**c**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 7 \quad 13 \\ - 8 \quad 3 \\ \hline - 4 \quad 5 \\ 3 \quad 8 \end{array}$$

**d**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 8 \quad 17 \\ - 9 \quad 7 \\ \hline - 6 \quad 9 \\ 2 \quad 8 \end{array}$$

**e**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 8 \quad 12 \\ - 9 \quad 2 \\ \hline - 5 \quad 8 \\ 3 \quad 4 \end{array}$$

2. **a**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 4 \quad 14 \\ - 5 \quad 4 \\ \hline - 3 \quad 8 \\ 1 \quad 6 \end{array}$$

**b**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 6 \quad 15 \\ - 7 \quad 5 \\ \hline - 4 \quad 6 \\ 2 \quad 9 \end{array}$$

**c**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 7 \quad 15 \\ - 8 \quad 5 \\ \hline - 4 \quad 8 \\ 3 \quad 7 \end{array}$$

**d**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 1 \quad 14 \\ - 2 \quad 4 \\ \hline - 1 \quad 7 \\ 7 \end{array}$$

**e**

$$\begin{array}{r} \text{t} \quad \text{o} \\ 6 \quad 14 \\ - 7 \quad 4 \\ \hline - 6 \quad 8 \\ 6 \end{array}$$

Try these. Look at the signs.

1.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 7 \quad 10 \\ - 8 \quad 0 \\ \hline - 2 \quad 7 \\ 5 \quad 3 \end{array}$$

2.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 3 \quad 8 \\ + 4 \quad 3 \\ \hline 1 \quad 1 \\ 7 \quad 0 \\ 8 \quad 1 \end{array}$$

3.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 8 \quad 14 \\ - 9 \quad 4 \\ \hline - 4 \quad 8 \\ 4 \quad 6 \end{array}$$

4.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 2 \quad 4 \\ + 6 \quad 9 \\ \hline 1 \quad 3 \\ 8 \quad 0 \\ 9 \quad 3 \end{array}$$

5.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 4 \quad 8 \\ + 3 \quad 2 \\ \hline 1 \quad 0 \\ 7 \quad 0 \\ 8 \quad 0 \end{array}$$

6.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 6 \quad 13 \\ - 7 \quad 3 \\ \hline - 2 \quad 4 \\ 4 \quad 9 \end{array}$$

7.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 4 \quad 15 \\ - 5 \quad 5 \\ \hline - 2 \quad 7 \\ 2 \quad 8 \end{array}$$

8.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 6 \quad 3 \\ + 2 \quad 9 \\ \hline 1 \quad 2 \\ 8 \quad 0 \\ 9 \quad 2 \end{array}$$

9.

$$\begin{array}{r} \text{t} \quad \text{o} \\ 7 \quad 10 \\ - 8 \quad 0 \\ \hline - 6 \quad 5 \\ 1 \quad 5 \end{array}$$



Practise adding and subtracting. Look at the signs.

a

$$\begin{array}{r} 1. \quad 34 \\ + 26 \\ \hline 10 \\ 50 \\ \hline 60 \end{array}$$

b

$$\begin{array}{r} 813 \\ 93 \\ - 38 \\ \hline 55 \end{array}$$

c

$$\begin{array}{r} 68 \\ + 18 \\ \hline 16 \\ 70 \\ \hline 86 \end{array}$$

d

$$\begin{array}{r} 46 \\ + 15 \\ \hline 11 \\ 50 \\ \hline 61 \end{array}$$

e

$$\begin{array}{r} 415 \\ 88 \\ - 29 \\ \hline 26 \end{array}$$

Add these.

1.  $\begin{array}{r} 53 \\ + 43 \\ \hline 96 \end{array}$

2.  $\begin{array}{r} 14 \\ + 60 \\ \hline 74 \end{array}$

3.  $\begin{array}{r} 36 \\ + 7 \\ \hline 13 \\ 30 \\ \hline 43 \end{array}$

4.  $\begin{array}{r} 58 \\ + 34 \\ \hline 12 \\ 80 \\ \hline 92 \end{array}$

5.  $\begin{array}{r} 47 \\ + 38 \\ \hline 15 \\ 70 \\ \hline 85 \end{array}$

Subtract these.

6.  $\begin{array}{r} 36 \\ - 20 \\ \hline 16 \end{array}$

7.  $\begin{array}{r} 79 \\ - 41 \\ \hline 38 \end{array}$

8.  $\begin{array}{r} 715 \\ 88 \\ - 17 \\ \hline 68 \end{array}$

9.  $\begin{array}{r} 411 \\ 51 \\ - 48 \\ \hline 3 \end{array}$

10.  $\begin{array}{r} 310 \\ 40 \\ - 36 \\ \hline 4 \end{array}$

Watch out for these. Look at the signs.

11.  $\begin{array}{r} 73 \\ - 51 \\ \hline 22 \end{array}$

12.  $\begin{array}{r} 76 \\ + 18 \\ \hline 14 \\ 80 \\ \hline 94 \end{array}$

13.  $\begin{array}{r} 84 \\ - 40 \\ \hline 44 \end{array}$

14.  $\begin{array}{r} 22 \\ + 29 \\ \hline 11 \\ 40 \\ \hline 51 \end{array}$

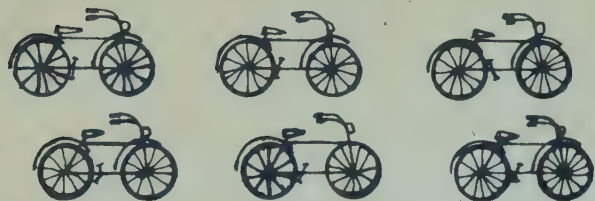
15.  $\begin{array}{r} 411 \\ 51 \\ - 12 \\ \hline 39 \end{array}$



1. How many bunches of grapes? 2

How many grapes on each bunch? 5

How many grapes in all? 10



2. How many bicycles? 6

How many wheels on each? 2

How many wheels in all? 12

3. How many dogs? 3

How many legs on each dog? 4

How many legs in all? 12



4. How many triangles? 3

How many corners on each? 3

How many corners in all? 9

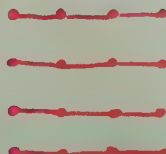
Make some arrays.

Example: Show 2 sets of 4 dots.



How many in all? 8

5. Show 4 sets of 4 dots.



How many in all? 16

6. Show 4 sets of 2 dots.



How many in all? 8

7. Show 3 sets of 4 dots.



How many in all? 12



Multiply.

a

1.  $2 \times 4 = \underline{8}$

2.  $4 \times 5 = \underline{20}$

3.  $3 \times 0 = \underline{0}$

4.  $1 \times 5 = \underline{5}$

5.  $6 \times 3 = \underline{18}$

6.  $2 \times 2 = \underline{4}$

7.  $6 \times 1 = \underline{6}$

8.  $0 \times 4 = \underline{0}$

9.  $3 \times 9 = \underline{27}$

10.  $5 \times 6 = \underline{30}$

11.  $8 \times 0 = \underline{0}$

12.  $4 \times 1 = \underline{4}$

b

3  $\times$  3 = 9

0  $\times$  7 = 0

1  $\times$  1 = 1

8  $\times$  4 = 32

9  $\times$  2 = 18

3  $\times$  7 = 21

4  $\times$  4 = 16

5  $\times$  5 = 25

8  $\times$  3 = 24

4  $\times$  7 = 28

2  $\times$  9 = 18

5  $\times$  0 = 0

c

2  $\times$  1 = 2

5  $\times$  3 = 15

7  $\times$  5 = 35

5  $\times$  8 = 40

6  $\times$  4 = 24

7  $\times$  2 = 14

9  $\times$  5 = 45

3  $\times$  6 = 18

0  $\times$  6 = 0

1  $\times$  9 = 9

5  $\times$  7 = 35

9  $\times$  4 = 36

d

4  $\times$  9 = 36

8  $\times$  5 = 40

4  $\times$  6 = 24

3  $\times$  8 = 24

7  $\times$  4 = 28

3  $\times$  5 = 15

5  $\times$  9 = 45

7  $\times$  3 = 21

4  $\times$  3 = 12

9  $\times$  0 = 0

1  $\times$  8 = 8

6  $\times$  5 = 30

13. 6 peaches.  
Each costs 5¢.  
Total cost  
is 30 ¢.

14. 4 plums.  
Each costs 8¢.  
Total cost  
is 32 ¢.

15. 8 figs.  
3¢ each.  
Total cost  
is 24 ¢.

16. 5-cent stamps.  
8 of them.  
They cost 40 ¢.

17. 9 nickels are  
worth 45 ¢.

18. 0 nickels are  
worth 0 ¢.

19. 7 marbles.  
2¢ each.  
Total cost  
is 14 ¢.

20. 3 pencils.  
9¢ each.  
Total cost  
is 27 ¢.

21. 2 erasers.  
8¢ each.  
Total cost  
is 16 ¢.



Multiply.

a

1.  $1 \times 6 = \underline{6}$

2.  $2 \times 1 = \underline{2}$

3.  $4 \times 5 = \underline{20}$

4.  $2 \times 7 = \underline{14}$

5.  $3 \times 7 = \underline{21}$

6.  $5 \times 8 = \underline{40}$

7.  $3 \times 9 = \underline{27}$

8.  $4 \times 8 = \underline{32}$

9.  $9 \times 0 = \underline{0}$

10.  $9 \times 3 = \underline{27}$

11.  $2 \times 4 = \underline{8}$

12.  $8 \times 5 = \underline{40}$

b

3  $\times$  0 = 0

3  $\times$  2 = 6

5  $\times$  3 = 15

4  $\times$  3 = 12

2  $\times$  8 = 16

4  $\times$  7 = 28

5  $\times$  2 = 10

5  $\times$  9 = 45

8  $\times$  2 = 16

6  $\times$  5 = 30

2  $\times$  6 = 12

9  $\times$  4 = 36

c

1  $\times$  3 = 3

6  $\times$  0 = 0

3  $\times$  1 = 3

5  $\times$  4 = 20

2  $\times$  5 = 10

2  $\times$  0 = 0

5  $\times$  6 = 30

5  $\times$  7 = 35

6  $\times$  4 = 24

0  $\times$  8 = 0

7  $\times$  4 = 28

4  $\times$  4 = 16

d

4  $\times$  2 = 8

1  $\times$  7 = 7

0  $\times$  9 = 0

3  $\times$  6 = 18

2  $\times$  9 = 18

3  $\times$  8 = 24

4  $\times$  6 = 24

4  $\times$  9 = 36

7  $\times$  5 = 35

8  $\times$  4 = 32

6  $\times$  2 = 12

9  $\times$  5 = 45

13. 3 swings.  
3 boys at each swing.

How many boys? 9

14. 5 boxes.  
8 balls in each box.

How many balls? 40

15. 2 boxes.  
8 pens in each.

16 pens in all.

16. 4 cartons.  
6 eggs in each.

24 eggs in all.

17. 2 feet.  
5 toes on each.

10 toes in all.

18. 4 girls.  
Each girl has 3 dogs.

How many dogs? 12

19. 5 teams.  
7 people on each team.

35 people in all.



1. Complete this chart.

	thousands	hundreds	tens	ones
2378	<u>2</u>	<u>3</u>	<u>7</u>	<u>8</u>
4259	<u>4</u>	<u>2</u>	<u>5</u>	<u>9</u>
6470	<u>6</u>	<u>4</u>	<u>7</u>	<u>0</u>
5004	<u>5</u>	<u>0</u>	<u>0</u>	<u>4</u>
362	<u>0</u>	<u>3</u>	<u>6</u>	<u>2</u>
6000	<u>6</u>	<u>0</u>	<u>0</u>	<u>0</u>

Write  $>$  or  $<$  to show how the numbers relate to each other.

2. 306  $<$  603      36  $<$  41      51  $>$  15      536  $<$  563
3. 751  $>$  715      97  $<$  111      123  $<$  321      807  $<$  870
4. 6843  $<$  8643      9356  $<$  9365      3678  $<$  3768      7735  $<$  7753

Look at each number. Write a number that is greater. *Answers will vary.*

5. 58  $>$  57      102  $>$  101      562  $>$  561
6. 625  $>$  624      539  $>$  538      922  $>$  921
7. 406  $>$  405      301  $>$  300      11  $>$  10
8. 3001  $>$  3000      6275  $>$  6274      9211  $>$  9210

Look at each number. Write a number that is less. *Answers will vary.*

9. 14  $<$  15      75  $<$  76      236  $<$  237
10. 508  $<$  509      324  $<$  325      479  $<$  480
11. 799  $<$  800      199  $<$  200      604  $<$  605



Add.

	a	b	c	d	e
1.	$\begin{array}{r} 50 \\ + 20 \\ \hline 70 \end{array}$	$\begin{array}{r} 37 \\ + 10 \\ \hline 47 \end{array}$	$\begin{array}{r} 70 \\ + 40 \\ \hline 110 \end{array}$	$\begin{array}{r} 50 \\ + 80 \\ \hline 130 \end{array}$	$\begin{array}{r} 60 \\ + 40 \\ \hline 100 \end{array}$
2.	$\begin{array}{r} 27 \\ + 49 \\ \hline 76 \end{array}$	$\begin{array}{r} 26 \\ + 58 \\ \hline 84 \end{array}$	$\begin{array}{r} 66 \\ + 14 \\ \hline 80 \end{array}$	$\begin{array}{r} 69 \\ + 24 \\ \hline 93 \end{array}$	$\begin{array}{r} 37 \\ + 43 \\ \hline 80 \end{array}$
3.	$\begin{array}{r} 39 \\ + 16 \\ \hline 55 \end{array}$	$\begin{array}{r} 35 \\ + 26 \\ \hline 61 \end{array}$	$\begin{array}{r} 59 \\ + 27 \\ \hline 86 \end{array}$	$\begin{array}{r} 25 \\ + 36 \\ \hline 61 \end{array}$	$\begin{array}{r} 46 \\ + 18 \\ \hline 64 \end{array}$
4.	$\begin{array}{r} 54 \\ + 67 \\ \hline 121 \end{array}$	$\begin{array}{r} 85 \\ + 29 \\ \hline 114 \end{array}$	$\begin{array}{r} 56 \\ + 44 \\ \hline 100 \end{array}$	$\begin{array}{r} 99 \\ + 32 \\ \hline 131 \end{array}$	$\begin{array}{r} 75 \\ + 69 \\ \hline 144 \end{array}$
5.	$\begin{array}{r} 86 \\ + 17 \\ \hline 103 \end{array}$	$\begin{array}{r} 86 \\ + 68 \\ \hline 154 \end{array}$	$\begin{array}{r} 75 \\ + 27 \\ \hline 102 \end{array}$	$\begin{array}{r} 67 \\ + 43 \\ \hline 110 \end{array}$	$\begin{array}{r} 95 \\ + 48 \\ \hline 143 \end{array}$

- 
1. Copy the problems.  
Correct Joe's mistakes.
- |   |  |  |   |  |  |   |  |  |
|---|--|--|---|--|--|---|--|--|
| a | $\begin{array}{r} 37 \\ + 13 \\ \hline 40 \end{array}$ | $\begin{array}{r} 37 \\ + 13 \\ \hline 50 \end{array}$ | b | $\begin{array}{r} 51 \\ + 29 \\ \hline 70 \end{array}$ | $\begin{array}{r} 51 \\ + 29 \\ \hline 80 \end{array}$ | c | $\begin{array}{r} 43 \\ + 49 \\ \hline 82 \end{array}$ | $\begin{array}{r} 43 \\ + 49 \\ \hline 92 \end{array}$ |
|---|--|--|---|--|--|---|--|--|
2. Copy the problems.  
Correct Mary's mistakes.
- |   |   |  |   |  |      |   |   |  |
|---|---|--|---|--|------|---|---|--|
| d | $\begin{array}{r} 45 \\ + 28 \\ \hline 613 \end{array}$ | $\begin{array}{r} 45 \\ + 28 \\ \hline 73 \end{array}$ | e | $\begin{array}{r} 27 \\ + 32 \\ \hline 59 \end{array}$ | O.K. | f | $\begin{array}{r} 73 \\ + 19 \\ \hline 812 \end{array}$ | $\begin{array}{r} 73 \\ + 19 \\ \hline 92 \end{array}$ |
|---|---|--|---|--|------|---|---|--|
3. Copy the problems.  
Correct Jon's mistakes.
- |   |  |  |   |  |  |
|---|--|--|---|--|--|
| g | $\begin{array}{r} 39 \\ + 52 \\ \hline 81 \end{array}$ | $\begin{array}{r} 39 \\ + 52 \\ \hline 91 \end{array}$ | h | $\begin{array}{r} 52 \\ + 26 \\ \hline 88 \end{array}$ | $\begin{array}{r} 52 \\ + 26 \\ \hline 78 \end{array}$ |
|---|--|--|---|--|--|



Add.

$$\begin{array}{r}
 436 \\
 + 13 \\
 \hline
 449
 \end{array}$$

Add ones.  
 Add tens.  
 Add hundreds.

$$\begin{array}{r}
 253 \\
 + 174 \\
 \hline
 427
 \end{array}$$

Add ones.  
 Add tens.  
 Add hundreds.

**a**

$$\begin{array}{r}
 285 \\
 + 13 \\
 \hline
 298
 \end{array}$$

**b**

$$\begin{array}{r}
 105 \\
 + 71 \\
 \hline
 176
 \end{array}$$

**c**

$$\begin{array}{r}
 158 \\
 + 31 \\
 \hline
 189
 \end{array}$$

**d**

$$\begin{array}{r}
 332 \\
 + 44 \\
 \hline
 376
 \end{array}$$

**e**

$$\begin{array}{r}
 163 \\
 + 25 \\
 \hline
 188
 \end{array}$$

$$\begin{array}{r}
 148 \\
 + 36 \\
 \hline
 184
 \end{array}$$

$$\begin{array}{r}
 205 \\
 + 86 \\
 \hline
 291
 \end{array}$$

$$\begin{array}{r}
 125 \\
 + 59 \\
 \hline
 184
 \end{array}$$

$$\begin{array}{r}
 129 \\
 + 65 \\
 \hline
 194
 \end{array}$$

$$\begin{array}{r}
 252 \\
 + 18 \\
 \hline
 270
 \end{array}$$

$$\begin{array}{r}
 393 \\
 + 24 \\
 \hline
 417
 \end{array}$$

$$\begin{array}{r}
 264 \\
 + 63 \\
 \hline
 327
 \end{array}$$

$$\begin{array}{r}
 283 \\
 + 76 \\
 \hline
 359
 \end{array}$$

$$\begin{array}{r}
 376 \\
 + 42 \\
 \hline
 418
 \end{array}$$

$$\begin{array}{r}
 163 \\
 + 43 \\
 \hline
 206
 \end{array}$$

$$\begin{array}{r}
 548 \\
 + 341 \\
 \hline
 889
 \end{array}$$

$$\begin{array}{r}
 624 \\
 + 263 \\
 \hline
 887
 \end{array}$$

$$\begin{array}{r}
 442 \\
 + 316 \\
 \hline
 758
 \end{array}$$

$$\begin{array}{r}
 156 \\
 + 102 \\
 \hline
 258
 \end{array}$$

$$\begin{array}{r}
 451 \\
 + 323 \\
 \hline
 774
 \end{array}$$

$$\begin{array}{r}
 426 \\
 + 248 \\
 \hline
 674
 \end{array}$$

$$\begin{array}{r}
 113 \\
 + 395 \\
 \hline
 508
 \end{array}$$

$$\begin{array}{r}
 476 \\
 + 418 \\
 \hline
 894
 \end{array}$$

$$\begin{array}{r}
 183 \\
 + 632 \\
 \hline
 815
 \end{array}$$

$$\begin{array}{r}
 619 \\
 + 177 \\
 \hline
 796
 \end{array}$$

$$\begin{array}{r}
 334 \\
 + 579 \\
 \hline
 913
 \end{array}$$

$$\begin{array}{r}
 156 \\
 + 689 \\
 \hline
 845
 \end{array}$$

$$\begin{array}{r}
 567 \\
 + 156 \\
 \hline
 723
 \end{array}$$

$$\begin{array}{r}
 474 \\
 + 139 \\
 \hline
 613
 \end{array}$$

$$\begin{array}{r}
 199 \\
 + 591 \\
 \hline
 790
 \end{array}$$

Add.

	h	t	e	o
	5	3	1	
+	1	2	4	
<hr/>				
6	5	5		

← Add ones.  
 ← Add tens.  
 ← Add hundreds.

	h	t	e	o
	2	3	6	
+	4	1	7	
<hr/>				
6	5	3		

← Add ones.  
 ← Add tens.  
 ← Add hundreds.

**a**

	h	t	e	o
	6	3	2	
+	1	4	3	
<hr/>				
7	7	5		

**b**

	h	t	e	o
	3	3	8	
+	2	7	1	
<hr/>				
6	0	9		

**c**

	h	t	e	o
	4	4	3	
+	2	1	9	
<hr/>				
6	6	2		

**d**

	h	t	e	o
	5	6	5	
+	3	3	4	
<hr/>				
8	9	9		

**e**

	h	t	e	o
	3	6	7	
+	1	5	5	
<hr/>				
5	2	2		

1.

	h	t	e	o
	2	2	4	
+	5	5	7	
<hr/>				
7	8	1		

2.

	h	t	e	o
	1	8	9	
+	4	1	1	
<hr/>				
6	0	0		

3.

	h	t	e	o
	6	3	5	
+	3	5	2	
<hr/>				
9	8	7		

4.

	h	t	e	o
	4	7	6	
+	3	5	2	
<hr/>				
8	2	8		

5.

	h	t	e	o
	8	7	4	
+		9	8	
<hr/>				
9	7	2		

3.

	h	t	e	o
	4	7	2	
+	4	0	7	
<hr/>				
8	7	9		

4.

	h	t	e	o
	3	5	1	
+		4	9	
<hr/>				
4	0	0		

5.

	h	t	e	o
	7	8	3	
+	1	9	8	
<hr/>				
9	8	1		

6.

	h	t	e	o
	2	4	6	
+	5	7	3	
<hr/>				
8	1	9		

7.

	h	t	e	o
	1	5	6	
+	5	1	5	
<hr/>				
6	7	1		

1.

	h	t	e	o
	3	7	4	
+	6	1	9	
<hr/>				
9	9	3		

2.

	h	t	e	o
	2	6	1	
+	2	6	6	
<hr/>				
5	2	7		

3.

	h	t	e	o
	7	4	4	
+	1	8	9	
<hr/>				
9	3	3		

4.

	h	t	e	o
	3	5	0	
+	2	5	7	
<hr/>				
6	0	7		

5.

	h	t	e	o
	4	0	8	
+	3	9	7	
<hr/>				
8	0	5		

6.

	h	t	e	o
	1	2	6	
+	8	6	9	
<hr/>				
9	9	5		

7.

	h	t	e	o
	6	7	0	
+	1	9	1	
<hr/>				
8	6	1		

8.

	h	t	e	o
	7	0	9	
+	1	9	1	
<hr/>				
9	0	0		

9.

	h	t	e	o
	3	4	1	
+	4	5	9	
<hr/>				
8	0	0		

10.

	h	t	e	o
	2	6	8	
+	5	5	5	
<hr/>				
8	2	3		



## 1. Add 36 to each number.

Example

$$\begin{array}{r} 14 \\ + 36 \\ \hline 50 \end{array}$$

$$\text{a } \begin{array}{r} 25 \\ + 36 \\ \hline 61 \end{array}$$

$$\text{b } \begin{array}{r} 37 \\ + 36 \\ \hline 73 \end{array}$$

$$\text{c } \begin{array}{r} 76 \\ + 36 \\ \hline 112 \end{array}$$

$$\text{d } \begin{array}{r} 35 \\ + 36 \\ \hline 71 \end{array}$$

$$\text{e } \begin{array}{r} 81 \\ + 36 \\ \hline 117 \end{array}$$

## 2. Add.

$$\text{a } \begin{array}{r} 432 \\ 134 \\ + 231 \\ \hline 797 \end{array}$$

$$\text{b } \begin{array}{r} 155 \\ 203 \\ + 411 \\ \hline 769 \end{array}$$

$$\text{c } \begin{array}{r} 213 \\ 312 \\ + 172 \\ \hline 697 \end{array}$$

$$\text{d } \begin{array}{r} 362 \\ 304 \\ + 312 \\ \hline 978 \end{array}$$

$$\text{e } \begin{array}{r} 123 \\ 235 \\ + 340 \\ \hline 698 \end{array}$$

Add.

$$\text{1. a } \begin{array}{r} 8 \\ + 8 \\ \hline 16 \end{array}$$

$$\text{b } \begin{array}{r} 5 \\ + 7 \\ \hline 12 \end{array}$$

$$\text{c } \begin{array}{r} 8 \\ + 7 \\ \hline 15 \end{array}$$

$$\text{d } \begin{array}{r} 9 \\ + 2 \\ \hline 11 \end{array}$$

$$\text{e } \begin{array}{r} 0 \\ + 7 \\ \hline 7 \end{array}$$

$$\text{f } \begin{array}{r} 7 \\ + 4 \\ \hline 11 \end{array}$$

$$\text{2. } \begin{array}{r} 10 \\ + 20 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 40 \\ + 30 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 30 \\ + 20 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 30 \\ + 30 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 90 \\ + 30 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 50 \\ + 70 \\ \hline 120 \end{array}$$

$$\text{3. } \begin{array}{r} 30 \\ + 58 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 24 \\ + 23 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 36 \\ + 12 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 72 \\ + 20 \\ \hline 92 \end{array}$$

$$\begin{array}{r} 61 \\ + 36 \\ \hline 97 \end{array}$$

$$\begin{array}{r} 51 \\ + 28 \\ \hline 79 \end{array}$$

$$\text{4. } \begin{array}{r} 58 \\ + 18 \\ \hline 76 \end{array}$$

$$\begin{array}{r} 26 \\ + 47 \\ \hline 73 \end{array}$$

$$\begin{array}{r} 28 \\ + 34 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 59 \\ + 63 \\ \hline 122 \end{array}$$

$$\begin{array}{r} 79 \\ + 29 \\ \hline 108 \end{array}$$

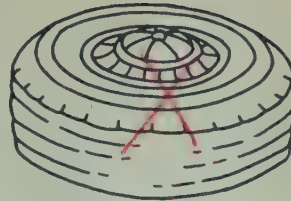
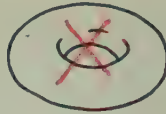
$$\begin{array}{r} 58 \\ + 64 \\ \hline 122 \end{array}$$

$$\text{5. a } \begin{array}{r} 438 \\ + 177 \\ \hline 615 \end{array}$$

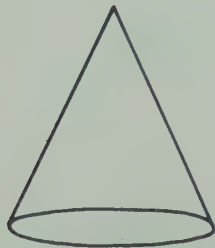
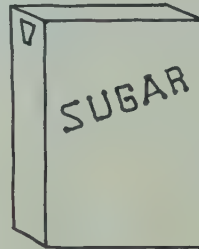
$$\text{b } \begin{array}{r} 527 \\ + 189 \\ \hline 716 \end{array}$$

$$\text{c } \begin{array}{r} 176 \\ + 259 \\ \hline 435 \end{array}$$

1. Place an X on each object that has a curved surface.

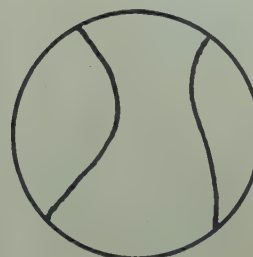


2. How many flat surfaces does this box of sugar have? 6
3. How many curved surfaces does it have? 0
4. How many edges does it have? 12
5. How many sharp points does it have? 8
6. How many sharp points on the box have three edges meeting? 8



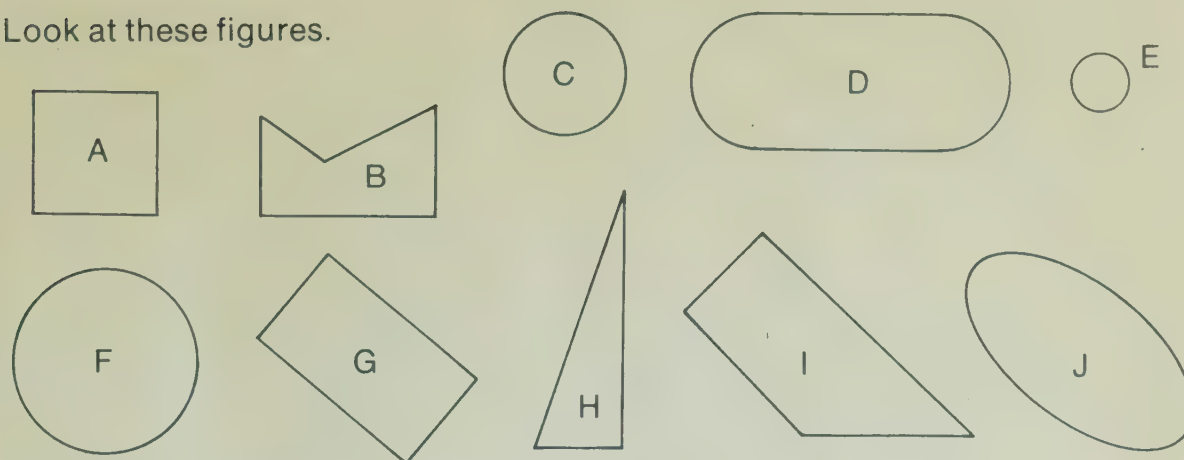
7. How many flat surfaces does this cone have? 1
8. How many curved surfaces does it have? 1
9. How many edges does it have? 1
10. How many sharp points does it have? 1
11. How many sharp points on the cone have three edges meeting? 0

12. How many flat surfaces does this tennis ball have? 0
13. How many curved surfaces does it have? 1
14. How many edges does it have? 0
15. How many sharp points does it have? 0
16. How many sharp points on the tennis ball have three edges meeting? 0





1. Look at these figures.



a Which of these figures

are rectangles? A, G

b Which of these figures

are squares? A

c Which of these figures

are triangles? H

d Which of these figures

are circles? C, E, F

2. Write how many sides each figure has.

A 4

B 5

C 0

D 0

E 0

F 0

G 4

H 3

I 4

J 0

Sue made a drawing of her classroom.



1. What shapes in the classroom look like rectangles? Example: chalkboard

2. Which shapes in the classroom look like squares? Example: bulletin board

3. What shapes in the classroom look like circles? Example: clock

4. What shapes in the classroom look like triangles? Example: pupil's desk

Subtract.

	a	b	c	d	e	f	g
1.	$\begin{array}{r} 2 \\ -2 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ -0 \\ \hline 1 \end{array}$	$\begin{array}{r} 6 \\ -3 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ -4 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ -4 \\ \hline 1 \end{array}$	$\begin{array}{r} 6 \\ -1 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ -0 \\ \hline 5 \end{array}$
2.	$\begin{array}{r} 3 \\ -0 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ -3 \\ \hline 1 \end{array}$	$\begin{array}{r} 9 \\ -4 \\ \hline 5 \end{array}$	$\begin{array}{r} 7 \\ -6 \\ \hline 1 \end{array}$	$\begin{array}{r} 4 \\ -1 \\ \hline 3 \end{array}$	$\begin{array}{r} 8 \\ -6 \\ \hline 2 \end{array}$	$\begin{array}{r} 7 \\ -3 \\ \hline 4 \end{array}$
3.	$\begin{array}{r} 9 \\ -0 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ -3 \\ \hline 5 \end{array}$	$\begin{array}{r} 0 \\ -0 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ -7 \\ \hline 1 \end{array}$	$\begin{array}{r} 9 \\ -6 \\ \hline 3 \end{array}$	$\begin{array}{r} 8 \\ -2 \\ \hline 6 \end{array}$	$\begin{array}{r} 7 \\ -2 \\ \hline 5 \end{array}$
4.	$\begin{array}{r} 5 \\ -5 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ -9 \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ -4 \\ \hline 2 \end{array}$	$\begin{array}{r} 9 \\ -3 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ -5 \\ \hline 1 \end{array}$	$\begin{array}{r} 5 \\ -3 \\ \hline 2 \end{array}$	$\begin{array}{r} 3 \\ -2 \\ \hline 1 \end{array}$

Subtract.

	a	b	c	d	e
1.	$\begin{array}{r l} \text{tens} & \text{ones} \\ 8 & 0 \\ -1 & 0 \\ \hline 7 & 0 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 7 & 0 \\ -5 & 0 \\ \hline 2 & 0 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 9 & 0 \\ -3 & 0 \\ \hline 6 & 0 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 6 & 0 \\ -4 & 0 \\ \hline 2 & 0 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 9 & 0 \\ -4 & 0 \\ \hline 5 & 0 \end{array}$
2.	$\begin{array}{r l} \text{tens} & \text{ones} \\ 2 & 8 \\ - & 3 \\ \hline 2 & 5 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 5 & 4 \\ - & 3 \\ \hline 5 & 1 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 8 & 7 \\ - & 6 \\ \hline 8 & 1 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 6 & 3 \\ - & 2 \\ \hline 6 & 1 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 4 & 9 \\ - & 8 \\ \hline 4 & 1 \end{array}$
3.	$\begin{array}{r l} \text{tens} & \text{ones} \\ 4 & 6 \\ - & 5 \\ \hline 4 & 1 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 3 & 6 \\ - & 2 \\ \hline 3 & 4 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 8 & 9 \\ - & 7 \\ \hline 8 & 2 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 9 & 8 \\ - & 3 \\ \hline 9 & 5 \end{array}$	$\begin{array}{r l} \text{tens} & \text{ones} \\ 6 & 8 \\ - & 7 \\ \hline 6 & 1 \end{array}$



Subtract.

	a	b	c	d	e
	tens ones	tens ones	tens ones	tens ones	tens ones
1.	$\begin{array}{r} 86 \\ - 35 \\ \hline 51 \end{array}$	$\begin{array}{r} 29 \\ - 23 \\ \hline 6 \end{array}$	$\begin{array}{r} 43 \\ - 31 \\ \hline 12 \end{array}$	$\begin{array}{r} 68 \\ - 22 \\ \hline 46 \end{array}$	$\begin{array}{r} 69 \\ - 59 \\ \hline 10 \end{array}$
2.	$\begin{array}{r} 48 \\ - 16 \\ \hline 32 \end{array}$	$\begin{array}{r} 71 \\ - 70 \\ \hline 1 \end{array}$	$\begin{array}{r} 78 \\ - 18 \\ \hline 60 \end{array}$	$\begin{array}{r} 75 \\ - 55 \\ \hline 20 \end{array}$	$\begin{array}{r} 69 \\ - 19 \\ \hline 50 \end{array}$
3.	$\begin{array}{r} 96 \\ - 91 \\ \hline 5 \end{array}$	$\begin{array}{r} 54 \\ - 13 \\ \hline 41 \end{array}$	$\begin{array}{r} 67 \\ - 13 \\ \hline 54 \end{array}$	$\begin{array}{r} 67 \\ - 31 \\ \hline 36 \end{array}$	$\begin{array}{r} 21 \\ - 11 \\ \hline 10 \end{array}$
4.	$\begin{array}{r} 98 \\ - 16 \\ \hline 82 \end{array}$	$\begin{array}{r} 26 \\ - 21 \\ \hline 5 \end{array}$	$\begin{array}{r} 31 \\ - 30 \\ \hline 1 \end{array}$	$\begin{array}{r} 93 \\ - 82 \\ \hline 11 \end{array}$	$\begin{array}{r} 59 \\ - 32 \\ \hline 27 \end{array}$

Subtract.

	a	b	c	d	e
1.	$\begin{array}{r} 171 \\ - 90 \\ \hline 81 \end{array}$	$\begin{array}{r} 111 \\ - 21 \\ \hline 90 \end{array}$	$\begin{array}{r} 147 \\ - 95 \\ \hline 52 \end{array}$	$\begin{array}{r} 128 \\ - 85 \\ \hline 43 \end{array}$	$\begin{array}{r} 128 \\ - 36 \\ \hline 92 \end{array}$
2.	$\begin{array}{r} 174 \\ - 82 \\ \hline 92 \end{array}$	$\begin{array}{r} 166 \\ - 73 \\ \hline 93 \end{array}$	$\begin{array}{r} 124 \\ - 80 \\ \hline 44 \end{array}$	$\begin{array}{r} 107 \\ - 20 \\ \hline 87 \end{array}$	$\begin{array}{r} 136 \\ - 60 \\ \hline 76 \end{array}$
3.	$\begin{array}{r} 127 \\ - 63 \\ \hline 64 \end{array}$	$\begin{array}{r} 146 \\ - 74 \\ \hline 72 \end{array}$	$\begin{array}{r} 157 \\ - 62 \\ \hline 95 \end{array}$	$\begin{array}{r} 133 \\ - 50 \\ \hline 83 \end{array}$	$\begin{array}{r} 145 \\ - 80 \\ \hline 65 \end{array}$
4.	$\begin{array}{r} 165 \\ - 95 \\ \hline 70 \end{array}$	$\begin{array}{r} 109 \\ - 98 \\ \hline 11 \end{array}$	$\begin{array}{r} 119 \\ - 24 \\ \hline 95 \end{array}$	$\begin{array}{r} 157 \\ - 61 \\ \hline 96 \end{array}$	$\begin{array}{r} 148 \\ - 62 \\ \hline 86 \end{array}$

Subtract. The renaming is done for you.

	a	b	c	d	e	f
1.	$\begin{array}{r} 5\ 10 \\ \cancel{8}\ \cancel{0} \\ - 5 \\ \hline 55 \end{array}$	$\begin{array}{r} 8\ 14 \\ \cancel{9}\ \cancel{4} \\ - 6 \\ \hline 88 \end{array}$	$\begin{array}{r} 5\ 15 \\ \cancel{6}\ \cancel{5} \\ - 9 \\ \hline 56 \end{array}$	$\begin{array}{r} 5\ 14 \\ \cancel{6}\ \cancel{4} \\ - 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 4\ 17 \\ \cancel{5}\ \cancel{7} \\ - 8 \\ \hline 49 \end{array}$	$\begin{array}{r} 8\ 15 \\ \cancel{9}\ \cancel{5} \\ - 8 \\ \hline 87 \end{array}$

Now you do the renaming.

2.	$\begin{array}{r} 7\ 12 \\ \cancel{8}\ \cancel{2} \\ - 9 \\ \hline 73 \end{array}$	$\begin{array}{r} 5\ 10 \\ \cancel{6}\ \cancel{0} \\ - 4 \\ \hline 56 \end{array}$	$\begin{array}{r} 6\ 14 \\ \cancel{7}\ \cancel{4} \\ - 6 \\ \hline 68 \end{array}$	$\begin{array}{r} 2\ 15 \\ \cancel{3}\ \cancel{5} \\ - 6 \\ \hline 29 \end{array}$	$\begin{array}{r} 1\ 10 \\ \cancel{2}\ \cancel{0} \\ - 2 \\ \hline 18 \end{array}$	$\begin{array}{r} 4\ 16 \\ \cancel{5}\ \cancel{6} \\ - 8 \\ \hline 48 \end{array}$
3.	$\begin{array}{r} 7\ 12 \\ \cancel{8}\ \cancel{2} \\ - 6 \\ \hline 76 \end{array}$	$\begin{array}{r} 6\ 15 \\ \cancel{7}\ \cancel{5} \\ - 9 \\ \hline 66 \end{array}$	$\begin{array}{r} 4\ 10 \\ \cancel{5}\ \cancel{0} \\ - 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 6\ 15 \\ \cancel{7}\ \cancel{5} \\ - 7 \\ \hline 68 \end{array}$	$\begin{array}{r} 8\ 11 \\ \cancel{9}\ \cancel{1} \\ - 5 \\ \hline 86 \end{array}$	$\begin{array}{r} 2\ 14 \\ \cancel{3}\ \cancel{4} \\ - 8 \\ \hline 26 \end{array}$
4.	$\begin{array}{r} 3\ 11 \\ \cancel{4}\ \cancel{1} \\ - 9 \\ \hline 32 \end{array}$	$\begin{array}{r} 4\ 10 \\ \cancel{5}\ \cancel{0} \\ - 3 \\ \hline 47 \end{array}$	$\begin{array}{r} 6\ 16 \\ \cancel{7}\ \cancel{6} \\ - 7 \\ \hline 69 \end{array}$	$\begin{array}{r} 2\ 12 \\ \cancel{3}\ \cancel{2} \\ - 9 \\ \hline 23 \end{array}$	$\begin{array}{r} 5\ 14 \\ \cancel{6}\ \cancel{4} \\ - 5 \\ \hline 59 \end{array}$	$\begin{array}{r} 6\ 17 \\ \cancel{7}\ \cancel{7} \\ - 8 \\ \hline 69 \end{array}$

Subtract. The renaming is done for you.

	a	b	c	d	e	f
1.	$\begin{array}{r} 7\ 10 \\ \cancel{8}\ \cancel{0} \\ - 27 \\ \hline 53 \end{array}$	$\begin{array}{r} 8\ 14 \\ \cancel{9}\ \cancel{4} \\ - 48 \\ \hline 46 \end{array}$	$\begin{array}{r} 4\ 15 \\ \cancel{5}\ \cancel{5} \\ - 27 \\ \hline 28 \end{array}$	$\begin{array}{r} 7\ 10 \\ \cancel{8}\ \cancel{0} \\ - 65 \\ \hline 15 \end{array}$	$\begin{array}{r} 8\ 11 \\ \cancel{9}\ \cancel{1} \\ - 54 \\ \hline 37 \end{array}$	$\begin{array}{r} 6\ 12 \\ \cancel{7}\ \cancel{2} \\ - 19 \\ \hline 53 \end{array}$

Your turn to rename again.

2.	$\begin{array}{r} 5\ 10 \\ \cancel{6}\ \cancel{0} \\ - 41 \\ \hline 19 \end{array}$	$\begin{array}{r} 2\ 16 \\ \cancel{3}\ \cancel{6} \\ - 17 \\ \hline 19 \end{array}$	$\begin{array}{r} 7\ 13 \\ \cancel{8}\ \cancel{3} \\ - 17 \\ \hline 66 \end{array}$	$\begin{array}{r} 4\ 11 \\ \cancel{5}\ \cancel{1} \\ - 44 \\ \hline 7 \end{array}$	$\begin{array}{r} 5\ 11 \\ \cancel{6}\ \cancel{1} \\ - 53 \\ \hline 8 \end{array}$	$\begin{array}{r} 4\ 12 \\ \cancel{5}\ \cancel{2} \\ - 37 \\ \hline 15 \end{array}$
3.	$\begin{array}{r} 7\ 11 \\ \cancel{8}\ \cancel{1} \\ - 77 \\ \hline 4 \end{array}$	$\begin{array}{r} 5\ 12 \\ \cancel{6}\ \cancel{2} \\ - 35 \\ \hline 27 \end{array}$	$\begin{array}{r} 8\ 12 \\ \cancel{9}\ \cancel{2} \\ - 24 \\ \hline 68 \end{array}$	$\begin{array}{r} 7\ 16 \\ \cancel{8}\ \cancel{6} \\ - 47 \\ \hline 39 \end{array}$	$\begin{array}{r} 8\ 14 \\ \cancel{9}\ \cancel{4} \\ - 19 \\ \hline 75 \end{array}$	$\begin{array}{r} 3\ 16 \\ \cancel{4}\ \cancel{6} \\ - 28 \\ \hline 18 \end{array}$



1. You had 94 cents.  
You bought a toy for 69 cents.  
Can you also buy a toy airplane  
that costs 31 cents? No
2. You had 53 cents.  
You bought a card for 39 cents.  
Can you also buy a comic book  
for 12 cents? Yes
3. Sam has to work one hour.  
He has worked 35 minutes.  
How many minutes does he  
still have to work? 25
4. It took Greta 81 seconds.  
It took Marie 74 seconds.  
How many seconds faster  
was Marie? 7
5. There are 64 children.  
35 are girls.  
How many are boys? 29
6. Sue planted 75 seeds.  
56 grew.  
How many seeds did not grow? 19

*Don't subtract. Just rename.*

Example

	a	b	c	d	e	
7.	$\begin{array}{r} 12\ 11 \\ 13\ 1 \\ - 3\ 2 \\ \hline \end{array}$	$\begin{array}{r} 11\ 16 \\ 12\ 6 \\ - 4\ 9 \\ \hline \end{array}$	$\begin{array}{r} 14\ 12 \\ 15\ 2 \\ - 7\ 5 \\ \hline \end{array}$	$\begin{array}{r} 16\ 17 \\ 17\ 7 \\ - 8\ 9 \\ \hline \end{array}$	$\begin{array}{r} 10\ 13 \\ 11\ 3 \\ - 1\ 9 \\ \hline \end{array}$	$\begin{array}{r} 11\ 15 \\ 12\ 5 \\ - 6\ 9 \\ \hline \end{array}$

Rename. Then subtract.

	a	b	c	d	e	f
8.	$\begin{array}{r} 16\ 11 \\ 17\ 1 \\ - 7\ 7 \\ \hline 9\ 4 \end{array}$	$\begin{array}{r} 9\ 11 \\ 10\ 1 \\ - 6\ 5 \\ \hline 3\ 6 \end{array}$	$\begin{array}{r} 9\ 17 \\ 10\ 7 \\ - 3\ 9 \\ \hline 6\ 8 \end{array}$	$\begin{array}{r} 12\ 10 \\ 13\ 0 \\ - 7\ 3 \\ \hline 5\ 7 \end{array}$	$\begin{array}{r} 11\ 12 \\ 12\ 2 \\ - 8\ 7 \\ \hline 3\ 5 \end{array}$	$\begin{array}{r} 13\ 12 \\ 14\ 2 \\ - 9\ 7 \\ \hline 4\ 5 \end{array}$
9.	$\begin{array}{r} 10\ 12 \\ 11\ 2 \\ - 8\ 9 \\ \hline 2\ 3 \end{array}$	$\begin{array}{r} 11\ 12 \\ 12\ 2 \\ - 7\ 5 \\ \hline 4\ 7 \end{array}$	$\begin{array}{r} 10\ 11 \\ 11\ 1 \\ - 8\ 5 \\ \hline 2\ 6 \end{array}$	$\begin{array}{r} 13\ 13 \\ 14\ 3 \\ - 9\ 4 \\ \hline 4\ 9 \end{array}$	$\begin{array}{r} 16\ 10 \\ 17\ 0 \\ - 8\ 4 \\ \hline 8\ 6 \end{array}$	$\begin{array}{r} 11\ 16 \\ 12\ 6 \\ - 9\ 7 \\ \hline 2\ 9 \end{array}$
10.	$\begin{array}{r} 10\ 10 \\ 11\ 0 \\ - 2\ 8 \\ \hline 8\ 2 \end{array}$	$\begin{array}{r} 11\ 11 \\ 12\ 1 \\ - 5\ 2 \\ \hline 6\ 9 \end{array}$	$\begin{array}{r} 15\ 16 \\ 16\ 6 \\ - 7\ 8 \\ \hline 8\ 8 \end{array}$	$\begin{array}{r} 13\ 13 \\ 14\ 3 \\ - 8\ 4 \\ \hline 5\ 9 \end{array}$	$\begin{array}{r} 10\ 13 \\ 11\ 3 \\ - 3\ 6 \\ \hline 7\ 7 \end{array}$	$\begin{array}{r} 12\ 18 \\ 13\ 8 \\ - 3\ 9 \\ \hline 9\ 9 \end{array}$

Subtract. The renaming is done for you.

	a	b	c	d	e
1.	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 0 \quad 12 \quad 15 \\ \cancel{1} \quad \cancel{3} \quad \cancel{5} \\ - \quad 4 \quad 6 \\ \hline 89 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 4 \quad 14 \quad 14 \\ \cancel{5} \quad \cancel{5} \quad \cancel{4} \\ - \quad 8 \quad 7 \\ \hline 467 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 8 \quad 16 \quad 18 \\ \cancel{9} \quad \cancel{7} \quad \cancel{8} \\ - \quad 8 \quad 9 \\ \hline 889 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 5 \quad 10 \quad 15 \\ \cancel{6} \quad \cancel{1} \quad \cancel{5} \\ - \quad 2 \quad 9 \\ \hline 586 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 6 \quad 16 \quad 12 \\ \cancel{7} \quad \cancel{7} \quad \cancel{2} \\ - \quad 9 \quad 3 \\ \hline 679 \end{array}$
2.	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 2 \quad 13 \quad 11 \\ \cancel{3} \quad \cancel{4} \quad \cancel{1} \\ - \quad 5 \quad 7 \\ \hline 284 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 6 \quad 12 \quad 15 \\ \cancel{7} \quad \cancel{3} \quad \cancel{5} \\ - \quad 5 \quad 9 \\ \hline 676 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 5 \quad 12 \quad 11 \\ \cancel{6} \quad \cancel{3} \quad \cancel{1} \\ - \quad 4 \quad 5 \\ \hline 586 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 5 \quad 10 \quad 14 \\ \cancel{6} \quad \cancel{1} \quad \cancel{4} \\ - \quad 4 \quad 8 \\ \hline 566 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 4 \quad 12 \quad 13 \\ \cancel{5} \quad \cancel{3} \quad \cancel{3} \\ - \quad 6 \quad 4 \\ \hline 469 \end{array}$
3.	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 4 \quad 12 \quad 13 \\ \cancel{5} \quad \cancel{3} \quad \cancel{3} \\ - \quad 7 \quad 4 \\ \hline 459 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 6 \quad 15 \quad 14 \\ \cancel{7} \quad \cancel{6} \quad \cancel{4} \\ - \quad 7 \quad 6 \\ \hline 688 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 5 \quad 10 \quad 11 \\ \cancel{6} \quad \cancel{1} \quad \cancel{1} \\ - \quad 2 \quad 3 \\ \hline 588 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 5 \quad 11 \quad 15 \\ \cancel{6} \quad \cancel{2} \quad \cancel{5} \\ - \quad 4 \quad 7 \\ \hline 578 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 7 \quad 13 \quad 11 \\ \cancel{8} \quad \cancel{4} \quad \cancel{1} \\ - \quad 5 \quad 8 \\ \hline 783 \end{array}$

Subtract. You have to rename these yourself.

	a	b	c	d	e
1.	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 7 \quad 14 \quad 14 \\ \cancel{8} \quad \cancel{2} \quad \cancel{4} \\ - \quad 3 \quad 6 \\ \hline 788 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 2 \quad 10 \quad 11 \\ \cancel{3} \quad \cancel{4} \quad \cancel{1} \\ - \quad 9 \quad 6 \\ \hline 245 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 1 \quad 13 \quad 13 \\ \cancel{2} \quad \cancel{4} \quad \cancel{3} \\ - \quad 6 \quad 7 \\ \hline 176 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 5 \quad 10 \quad 13 \\ \cancel{6} \quad \cancel{1} \quad \cancel{3} \\ - \quad 3 \quad 5 \\ \hline 578 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 6 \quad 10 \quad 12 \\ \cancel{7} \quad \cancel{1} \quad \cancel{2} \\ - \quad 4 \quad 3 \\ \hline 669 \end{array}$
2.	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 4 \quad 11 \quad 11 \\ \cancel{5} \quad \cancel{2} \quad \cancel{1} \\ - \quad 6 \quad 4 \\ \hline 457 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 1 \quad 17 \quad 13 \\ \cancel{2} \quad \cancel{8} \quad \cancel{3} \\ - \quad 9 \quad 5 \\ \hline 188 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 4 \quad 12 \quad 15 \\ \cancel{5} \quad \cancel{3} \quad \cancel{5} \\ - \quad 5 \quad 9 \\ \hline 476 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 2 \quad 17 \quad 17 \\ \cancel{3} \quad \cancel{8} \quad \cancel{7} \\ - \quad 9 \quad 9 \\ \hline 288 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 2 \quad 14 \quad 14 \\ \cancel{3} \quad \cancel{5} \quad \cancel{4} \\ - \quad 8 \quad 6 \\ \hline 268 \end{array}$
3.	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 7 \quad 13 \quad 13 \\ \cancel{8} \quad \cancel{4} \quad \cancel{3} \\ - \quad 5 \quad 6 \\ \hline 787 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 3 \quad 11 \quad 15 \\ \cancel{4} \quad \cancel{2} \quad \cancel{5} \\ - \quad 4 \quad 7 \\ \hline 378 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 6 \quad 10 \quad 12 \\ \cancel{7} \quad \cancel{1} \quad \cancel{2} \\ - \quad 3 \quad 3 \\ \hline 679 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 2 \quad 13 \quad 13 \\ \cancel{3} \quad \cancel{4} \quad \cancel{3} \\ - \quad 5 \quad 8 \\ \hline 285 \end{array}$	$\begin{array}{r} \text{h} \quad \text{t} \quad \text{o} \\ 3 \quad 12 \quad 17 \\ \cancel{4} \quad \cancel{3} \quad \cancel{7} \\ - \quad 6 \quad 9 \\ \hline 368 \end{array}$



Subtract.

a

$$\begin{array}{r} 1. \quad 476 \\ - 55 \\ \hline 421 \end{array}$$

b

$$\begin{array}{r} 538 \\ - 29 \\ \hline 509 \end{array}$$

c

$$\begin{array}{r} 551 \\ - 71 \\ \hline 580 \end{array}$$

d

$$\begin{array}{r} 237 \\ - 58 \\ \hline 289 \end{array}$$

e

$$\begin{array}{r} 194 \\ - 69 \\ \hline 135 \end{array}$$

2.

$$\begin{array}{r} 812 \\ 937 \\ - 78 \\ \hline 853 \end{array}$$

b

$$\begin{array}{r} 5150 \\ 660 \\ - 94 \\ \hline 566 \end{array}$$

c

$$\begin{array}{r} 744 \\ 854 \\ - 66 \\ \hline 788 \end{array}$$

d

$$\begin{array}{r} 735 \\ - 21 \\ \hline 714 \end{array}$$

e

$$\begin{array}{r} 210 \\ 306 \\ - 85 \\ \hline 221 \end{array}$$

3.

$$\begin{array}{r} 51214 \\ 634 \\ - 47 \\ \hline 587 \end{array}$$

b

$$\begin{array}{r} 212 \\ 329 \\ - 89 \\ \hline 240 \end{array}$$

c

$$\begin{array}{r} 1311 \\ 141 \\ - 55 \\ \hline 86 \end{array}$$

d

$$\begin{array}{r} 116 \\ 526 \\ - 18 \\ \hline 508 \end{array}$$

e

$$\begin{array}{r} 81110 \\ 920 \\ - 67 \\ \hline 853 \end{array}$$

4.

$$\begin{array}{r} 21518 \\ 368 \\ - 69 \\ \hline 299 \end{array}$$

b

$$\begin{array}{r} 310 \\ 404 \\ - 53 \\ \hline 351 \end{array}$$

c

$$\begin{array}{r} 41113 \\ 523 \\ - 95 \\ \hline 428 \end{array}$$

d

$$\begin{array}{r} 810 \\ 909 \\ - 74 \\ \hline 835 \end{array}$$

e

$$\begin{array}{r} 51512 \\ 662 \\ - 89 \\ \hline 573 \end{array}$$

Complete this subtraction puzzle. Subtract the number on the left from each number across the top.

—	572	208	940	636
39	533	169	901	597
77	495	131	863	559
94	478	114	846	542

Subtract.

a

$$\begin{array}{r} 316 \\ 460 \\ - 70 \\ \hline 390 \end{array}$$

b

$$\begin{array}{r} 412 \\ 520 \\ - 80 \\ \hline 440 \end{array}$$

c

$$\begin{array}{r} 314 \\ 444 \\ - 50 \\ \hline 394 \end{array}$$

d

$$\begin{array}{r} 514 \\ 643 \\ - 71 \\ \hline 572 \end{array}$$

e

$$\begin{array}{r} 612 \\ 721 \\ - 90 \\ \hline 631 \end{array}$$

2.

$$\begin{array}{r} 21015 \\ 315 \\ - 29 \\ \hline 286 \end{array}$$

b

$$\begin{array}{r} 214 \\ 347 \\ - 64 \\ \hline 283 \end{array}$$

c

$$\begin{array}{r} 81612 \\ 972 \\ - 86 \\ \hline 886 \end{array}$$

d

$$\begin{array}{r} 114 \\ 249 \\ - 87 \\ \hline 162 \end{array}$$

e

$$\begin{array}{r} 514 \\ 641 \\ - 61 \\ \hline 580 \end{array}$$

3.

$$\begin{array}{r} 51417 \\ 657 \\ - 79 \\ \hline 578 \end{array}$$

b

$$\begin{array}{r} 61112 \\ 722 \\ - 84 \\ \hline 638 \end{array}$$

c

$$\begin{array}{r} 117 \\ 277 \\ - 96 \\ \hline 181 \end{array}$$

d

$$\begin{array}{r} 518 \\ 681 \\ - 90 \\ \hline 591 \end{array}$$

e

$$\begin{array}{r} 11311 \\ 241 \\ - 56 \\ \hline 185 \end{array}$$

4. Jay did four problems. Mark an X on those problems that are wrong.

a

$$\begin{array}{r} 21617 \\ 77 \\ - 96 \\ \hline 271 \end{array}$$

b

$$\begin{array}{r} 696 \\ 38 \\ - 662 \end{array}$$

c

$$\begin{array}{r} 812 \\ 20 \\ - 50 \\ \hline 870 \end{array}$$

d

$$\begin{array}{r} 41517 \\ 557 \\ - 78 \\ \hline 489 \end{array}$$

Try these.

1.

$$\begin{array}{r} 613 \\ 73 \\ - 8 \\ \hline 65 \end{array}$$

2.

$$\begin{array}{r} 411 \\ 51 \\ - 4 \\ \hline 47 \end{array}$$

3.

$$\begin{array}{r} 513 \\ 63 \\ - 7 \\ \hline 56 \end{array}$$

4.

$$\begin{array}{r} 312 \\ 42 \\ - 17 \\ \hline 25 \end{array}$$

5.

$$\begin{array}{r} 414 \\ 54 \\ - 15 \\ \hline 39 \end{array}$$

6.

$$\begin{array}{r} 214 \\ 34 \\ - 27 \\ \hline 7 \end{array}$$

7.

$$\begin{array}{r} 1512 \\ 162 \\ - 74 \\ \hline 88 \end{array}$$

8.

$$\begin{array}{r} 1316 \\ 146 \\ - 77 \\ \hline 69 \end{array}$$

9.

$$\begin{array}{r} 1411 \\ 151 \\ - 84 \\ \hline 67 \end{array}$$

10.

$$\begin{array}{r} 614 \\ 745 \\ - 63 \\ \hline 682 \end{array}$$

11.

$$\begin{array}{r} 313 \\ 438 \\ - 54 \\ \hline 384 \end{array}$$

12.

$$\begin{array}{r} 115 \\ 256 \\ - 75 \\ \hline 181 \end{array}$$

13.

$$\begin{array}{r} 11513 \\ 263 \\ - 78 \\ \hline 185 \end{array}$$

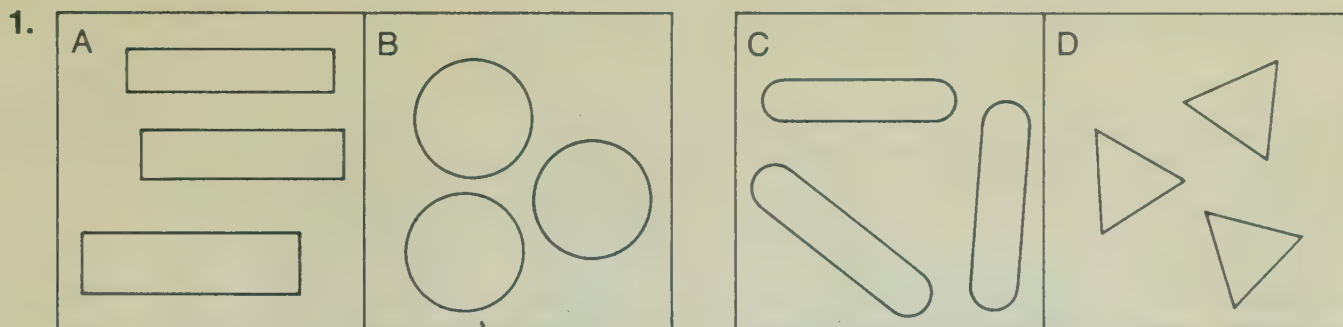
14.

$$\begin{array}{r} 41215 \\ 535 \\ - 69 \\ \hline 466 \end{array}$$

15.

$$\begin{array}{r} 71312 \\ 842 \\ - 53 \\ \hline 789 \end{array}$$





a Which shapes fit together better, A or B?

A

b Which shapes fit together better, C or D?

D

Make a square-corner tester. Take a small sheet of paper.

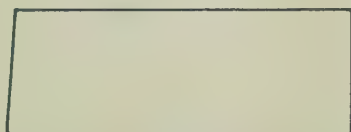
Fold it.



Now fold it again so that the fold goes over on itself.

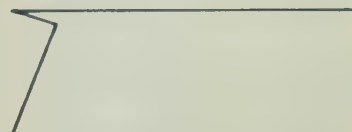


2. Use your square-corner tester to answer these questions.



a How many corners does this shape have?

4



c How many corners does this shape have?

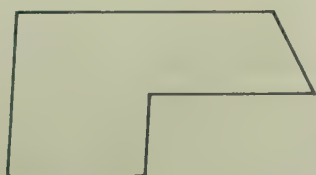
5

b How many square corners does it have?

2

d How many square corners does it have?

2



e How many corners does this shape have?

6



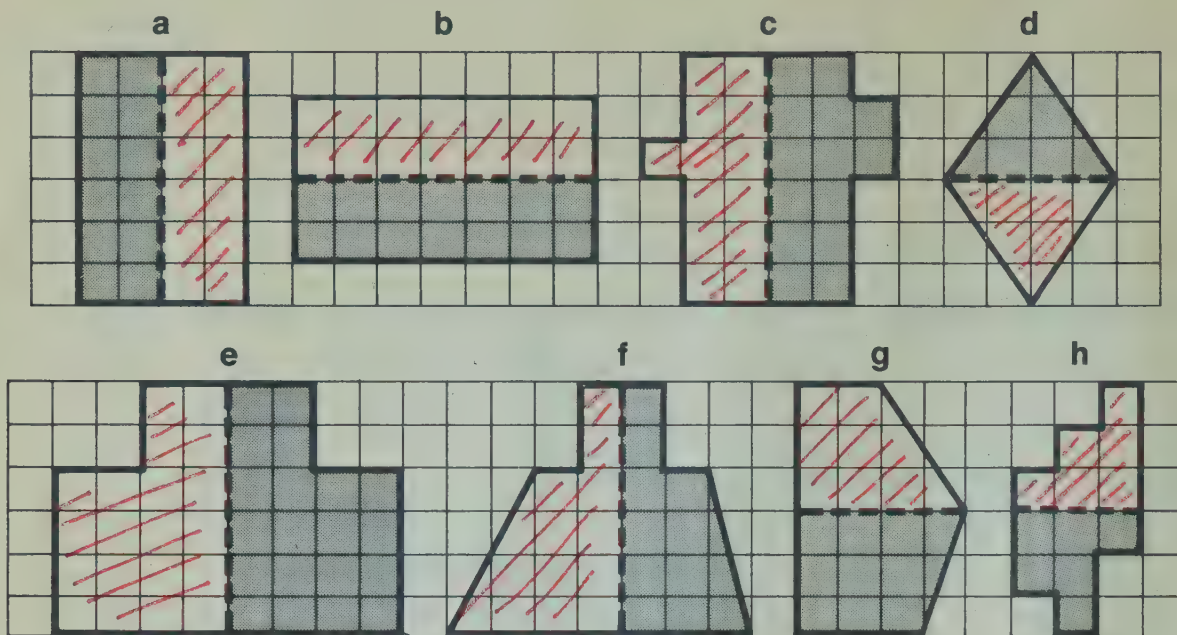
g How many corners does this shape have?

9

f How many square corners? 0

h How many square corners? 3

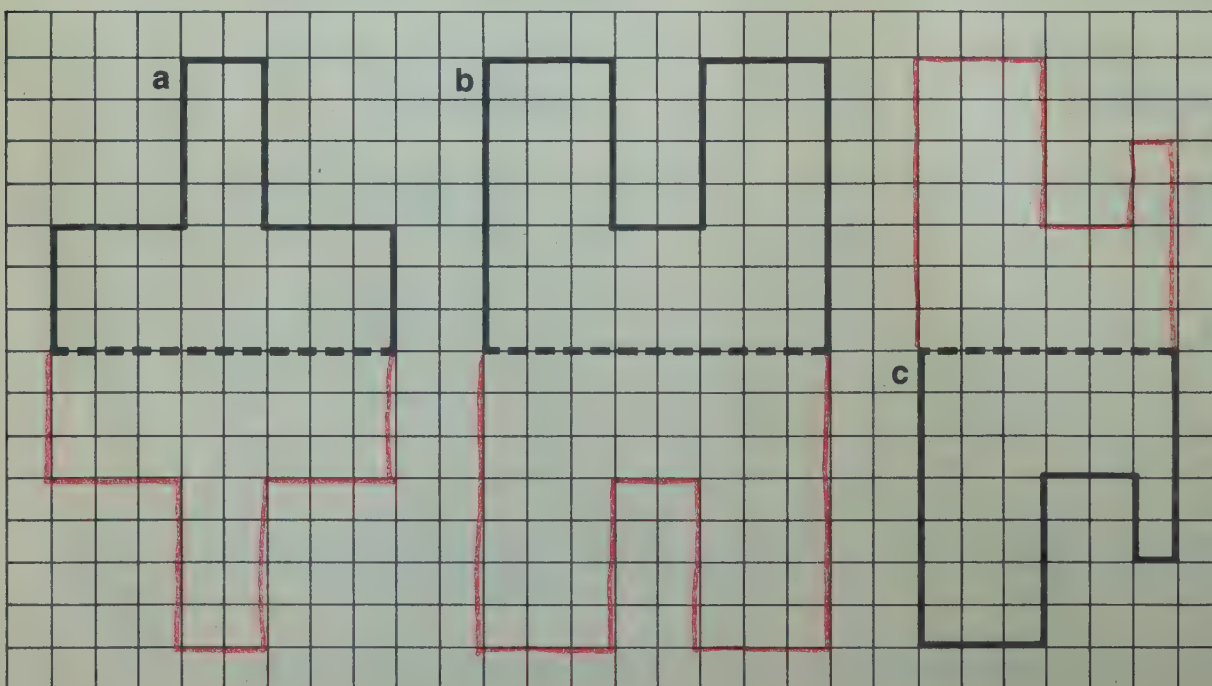
1. Shade the part of each figure that is not shaded.



2. Look at the two shaded parts of each figure above.

In which figures do the parts match? a, b, d, e

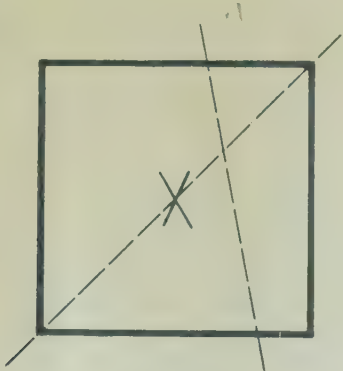
3. Draw a matching part for each figure.  
Pretend the dotted line is the fold line.





Place an X on the line of symmetry for each figure.

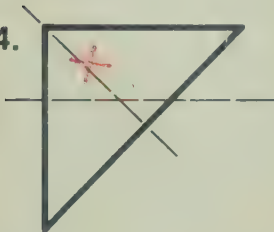
Example



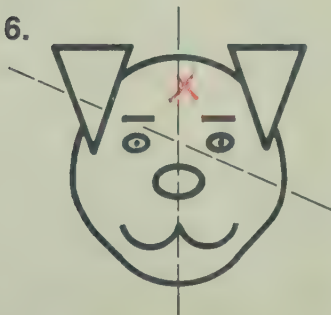
2.



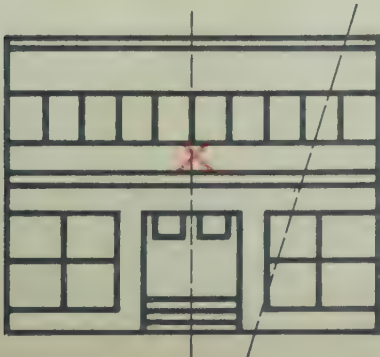
4.



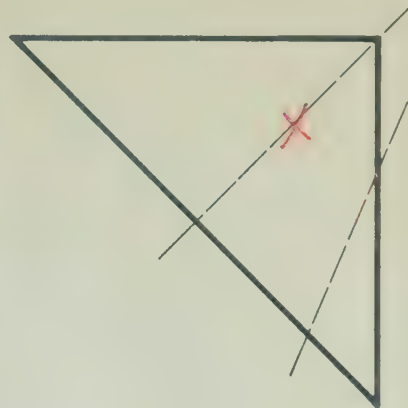
6.



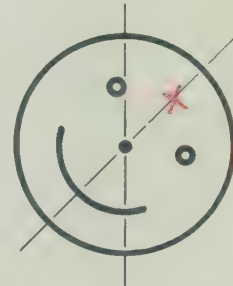
8.



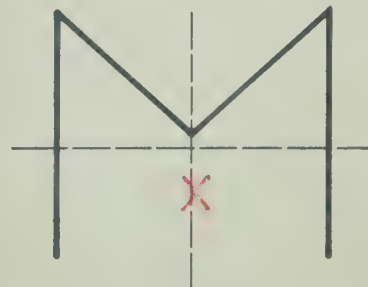
1.



3.



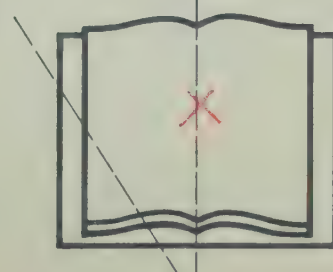
5.






7.



9.



1. Draw an array for each problem. Write the product.

a	b	c
$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$ 	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$ 	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$ 

Multiply.

a	b	c	d	e	f	g
2. $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline 0 \end{array}$
3. $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$
4. $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$
5. $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$
6. $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$
7. $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$
8. $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$



1. Complete this table.

x	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81

Use the table to answer these questions.

2. 12 is the product of

3 and 4, 4 and 3  
6 and 2, 2 and 6

3. 24 is the product of

3 and 8, 8 and 3  
4 and 6, 6 and 4

4. 18 is the product of

2 and 9, 9 and 2  
3 and 6, 6 and 3

5. 36 is the product of

4 and 9, 9 and 4  
6 and 6

6. 16 is the product of

2 and 8, 8 and 2  
4 and 4

7. 63 is the product of

7 and 9, 9 and 7

8. 56 is the product of

7 and 8, 8 and 7

9. 42 is the product of

6 and 7, 7 and 6

Multiply.

	a	b	c	d
1.	$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$
2.	$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$
3.	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$
4.	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 5 \\ \times 0 \\ \hline 0 \end{array}$

	a	b	c	d
5.	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$
6.	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$
7.	$\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$
8.	$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$

	a	b	c	d
9.	$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline 0 \end{array}$
10.	$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$
11.	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$
12.	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$

	a	b	c	d
13.	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$
14.	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$
15.	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$
16.	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$



Multiply.

$$\begin{array}{r}
 64 \\
 \times 2 \\
 \hline
 128
 \end{array}$$

$\leftarrow 2 \times 4$  ones  
 $\leftarrow 2 \times 6$  tens

a

b

c

d

e

$$\begin{array}{r}
 1. \quad 30 \\
 \times 3 \\
 \hline
 90
 \end{array}$$

$$\begin{array}{r}
 20 \\
 \times 4 \\
 \hline
 80
 \end{array}$$

$$\begin{array}{r}
 90 \\
 \times 1 \\
 \hline
 90
 \end{array}$$

$$\begin{array}{r}
 40 \\
 \times 2 \\
 \hline
 80
 \end{array}$$

$$\begin{array}{r}
 10 \\
 \times 8 \\
 \hline
 80
 \end{array}$$

$$\begin{array}{r}
 2. \quad 70 \\
 \times 7 \\
 \hline
 490
 \end{array}$$

$$\begin{array}{r}
 62 \\
 \times 4 \\
 \hline
 248
 \end{array}$$

$$\begin{array}{r}
 81 \\
 \times 3 \\
 \hline
 243
 \end{array}$$

$$\begin{array}{r}
 52 \\
 \times 3 \\
 \hline
 156
 \end{array}$$

$$\begin{array}{r}
 41 \\
 \times 3 \\
 \hline
 123
 \end{array}$$

$$\begin{array}{r}
 3. \quad 61 \\
 \times 5 \\
 \hline
 305
 \end{array}$$

$$\begin{array}{r}
 70 \\
 \times 4 \\
 \hline
 280
 \end{array}$$

$$\begin{array}{r}
 50 \\
 \times 7 \\
 \hline
 350
 \end{array}$$

$$\begin{array}{r}
 31 \\
 \times 4 \\
 \hline
 124
 \end{array}$$

$$\begin{array}{r}
 53 \\
 \times 2 \\
 \hline
 106
 \end{array}$$

$$\begin{array}{r}
 4. \quad 50 \\
 \times 8 \\
 \hline
 400
 \end{array}$$

$$\begin{array}{r}
 20 \\
 \times 8 \\
 \hline
 160
 \end{array}$$

$$\begin{array}{r}
 92 \\
 \times 2 \\
 \hline
 184
 \end{array}$$

$$\begin{array}{r}
 61 \\
 \times 8 \\
 \hline
 488
 \end{array}$$

$$\begin{array}{r}
 32 \\
 \times 3 \\
 \hline
 96
 \end{array}$$

Try these. Draw lines between the places if you need them.

a

b

c

d

e

f

$$\begin{array}{r}
 1. \quad 71 \\
 \times 5 \\
 \hline
 355
 \end{array}$$

$$\begin{array}{r}
 81 \\
 \times 2 \\
 \hline
 162
 \end{array}$$

$$\begin{array}{r}
 21 \\
 \times 9 \\
 \hline
 189
 \end{array}$$

$$\begin{array}{r}
 82 \\
 \times 3 \\
 \hline
 246
 \end{array}$$

$$\begin{array}{r}
 43 \\
 \times 3 \\
 \hline
 129
 \end{array}$$

$$\begin{array}{r}
 31 \\
 \times 8 \\
 \hline
 248
 \end{array}$$

$$\begin{array}{r}
 2. \quad 82 \\
 \times 4 \\
 \hline
 328
 \end{array}$$

$$\begin{array}{r}
 90 \\
 \times 8 \\
 \hline
 720
 \end{array}$$

$$\begin{array}{r}
 53 \\
 \times 3 \\
 \hline
 159
 \end{array}$$

$$\begin{array}{r}
 41 \\
 \times 7 \\
 \hline
 287
 \end{array}$$

$$\begin{array}{r}
 94 \\
 \times 2 \\
 \hline
 188
 \end{array}$$

$$\begin{array}{r}
 72 \\
 \times 3 \\
 \hline
 216
 \end{array}$$

Multiply.

14		
× 3		
12	← 3 × 4 ones	
30	← 3 × 1 ten	
42	← in all	

**a**

1.	23
×	4
<hr/>	
	12
	80
	<hr/>
	92

**b**

	15
×	3
<hr/>	
	15
	30
	<hr/>
	45

**c**

	17
×	2
<hr/>	
	14
	20
	<hr/>
	34

**d**

	38
×	2
<hr/>	
	16
	60
	<hr/>
	76

**e**

	29
×	3
<hr/>	
	27
	60
	<hr/>
	87

**2.**

49	
×	2
<hr/>	
	18
	80
	<hr/>
	98

12	
×	8
<hr/>	
	16
	80
	<hr/>
	96

23	
×	4
<hr/>	
	12
	80
	<hr/>
	92

13	
×	7
<hr/>	
	21
	70
	<hr/>
	91

19	
×	5
<hr/>	
	45
	50
	<hr/>
	95

**3.**

16	
×	6
<hr/>	
	36
	60
	<hr/>
	96

14	
×	7
<hr/>	
	28
	70
	<hr/>
	98

27	
×	3
<hr/>	
	21
	60
	<hr/>
	81

17	
×	5
<hr/>	
	35
	50
	<hr/>
	85

13	
×	6
<hr/>	
	18
	60
	<hr/>
	78

**4.**

15	
×	6
<hr/>	
	30
	60
	<hr/>
	90

34	
×	3
<hr/>	
	12
	90
	<hr/>
	102

39	
×	2
<hr/>	
	18
	60
	<hr/>
	78

26	
×	4
<hr/>	
	24
	80
	<hr/>
	104

17	
×	6
<hr/>	
	42
	60
	<hr/>
	102

Multiply.

a

$$\begin{array}{r} 1. \quad 17 \\ \times \quad 3 \\ \hline 21 \\ 30 \\ \hline 51 \end{array}$$

b

$$\begin{array}{r} 28 \\ \times \quad 4 \\ \hline 32 \\ 80 \\ \hline 112 \end{array}$$

c

$$\begin{array}{r} 13 \\ \times \quad 6 \\ \hline 18 \\ 60 \\ \hline 78 \end{array}$$

d

$$\begin{array}{r} 15 \\ \times \quad 9 \\ \hline 45 \\ 90 \\ \hline 135 \end{array}$$

e

$$\begin{array}{r} 16 \\ \times \quad 7 \\ \hline 42 \\ 70 \\ \hline 112 \end{array}$$

$$\begin{array}{r} 2. \quad 19 \\ \times \quad 5 \\ \hline 45 \\ 50 \\ \hline 95 \end{array}$$

$$\begin{array}{r} 29 \\ \times \quad 4 \\ \hline 36 \\ 80 \\ \hline 116 \end{array}$$

$$\begin{array}{r} 53 \\ \times \quad 5 \\ \hline 15 \\ 250 \\ \hline 265 \end{array}$$

$$\begin{array}{r} 99 \\ \times \quad 2 \\ \hline 18 \\ 180 \\ \hline 198 \end{array}$$

$$\begin{array}{r} 68 \\ \times \quad 3 \\ \hline 24 \\ 180 \\ \hline 204 \end{array}$$

Multiply.

$$\begin{array}{r} 1. \quad 68 \\ \times \quad 3 \\ \hline 24 \\ 180 \\ \hline 204 \end{array}$$

$$\begin{array}{r} 2. \quad 44 \\ \times \quad 6 \\ \hline 24 \\ 240 \\ \hline 264 \end{array}$$

$$\begin{array}{r} 3. \quad 42 \\ \times \quad 7 \\ \hline 14 \\ 280 \\ \hline 294 \end{array}$$

$$\begin{array}{r} 4. \quad 68 \\ \times \quad 5 \\ \hline 40 \\ 300 \\ \hline 340 \end{array}$$

$$\begin{array}{r} 5. \quad 49 \\ \times \quad 9 \\ \hline 81 \\ 360 \\ \hline 441 \end{array}$$

$$\begin{array}{r} 6. \quad 27 \\ \times \quad 6 \\ \hline 42 \\ 120 \\ \hline 162 \end{array}$$

$$\begin{array}{r} 7. \quad 35 \\ \times \quad 9 \\ \hline 45 \\ 270 \\ \hline 315 \end{array}$$

$$\begin{array}{r} 8. \quad 86 \\ \times \quad 2 \\ \hline 12 \\ 160 \\ \hline 172 \end{array}$$

$$\begin{array}{r} 9. \quad 78 \\ \times \quad 9 \\ \hline 72 \\ 630 \\ \hline 702 \end{array}$$

$$\begin{array}{r} 10. \quad 65 \\ \times \quad 4 \\ \hline 20 \\ 240 \\ \hline 260 \end{array}$$

$$\begin{array}{r} 11. \quad 86 \\ \times \quad 4 \\ \hline 24 \\ 320 \\ \hline 344 \end{array}$$

$$\begin{array}{r} 12. \quad 34 \\ \times \quad 3 \\ \hline 12 \\ 90 \\ \hline 102 \end{array}$$

$$\begin{array}{r} 13. \quad 92 \\ \times \quad 6 \\ \hline 12 \\ 540 \\ \hline 552 \end{array}$$

$$\begin{array}{r} 14. \quad 36 \\ \times \quad 7 \\ \hline 42 \\ 210 \\ \hline 252 \end{array}$$

$$\begin{array}{r} 15. \quad 88 \\ \times \quad 4 \\ \hline 32 \\ 320 \\ \hline 352 \end{array}$$

$$\begin{array}{r} 16. \quad 55 \\ \times \quad 9 \\ \hline 45 \\ 450 \\ \hline 495 \end{array}$$



1. Complete this chart.

If each room has this many people	3	4	5	6	7	8	9
a how many are in 2 rooms?	6	8	10	12	14	16	18
b in 8 rooms?	24	32	40	48	56	64	72
c in 10 rooms?	30	40	50	60	70	80	90
d in 14 rooms?	42	56	70	84	98	112	126
e in 20 rooms?	60	80	100	120	140	160	180
f in 30 rooms?	90	120	150	180	210	240	270

Do your work here.

2. Use  $>$ ,  $<$ , or  $=$  to make each sentence true.

a  $4 \times 18$   $>$   $2 \times 19$

b  $3 \times 35$   $<$   $3 \times 36$

c  $2 \times 50$   $=$   $4 \times 25$

d  $2 \times 68$   $=$   $4 \times 34$

e  $3 \times 48$   $=$   $4 \times 36$

f  $7 \times 54$   $=$   $6 \times 63$

Do your work here.

3. Multiply.

a

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

b

$$\begin{array}{r} 20 \\ \times 4 \\ \hline 80 \end{array}$$

c

$$\begin{array}{r} 13 \\ \times 3 \\ \hline 39 \end{array}$$

d

$$\begin{array}{r} 17 \\ \times 5 \\ \hline 85 \end{array}$$

e

$$\begin{array}{r} 52 \\ \times 7 \\ \hline 364 \end{array}$$

f

$$\begin{array}{r} 69 \\ \times 6 \\ \hline 414 \end{array}$$

Ring the larger number in each pair.

**a**1. 5 or 7**b**10 or 9**c**100 or 98**d**2022 or 22022. 23 or 32233 or 3325155 or 55151403 or 1340

3. Tell the value of the digit.

**a** 234 What is the value of the 3? 30**b** 561 What is the value of the 5? 500**c** 615 What is the value of the 5? 5**d** 6452 What is the value of the 4? 400**e** 4625 What is the value of the 4? 4000**f** 2546 What is the value of the 4? 40**g** 3707 What is the value of the 0? 0 tens**h** 5021 What is the value of the 0? 0 hundreds

4. Write a number for each of these.

**a** Use any five different digits. Write the largest number you can. 98 765**b** Use any five different digits. Write the smallest number you can. 10 234**c** Use any six different digits. Write the smallest number you can. 102 345**d** Use 7, 5, 3, 0, and 0. Write the smallest number you can that is greater than fifty thousand. 50 037**e** Use 9, 9, 8, 7, and 7. Write the largest number you can that is less than eighty thousand. 79 987

Add.

	a	b	c	d	e	f	g
1.	$\begin{array}{r} 0 \\ + 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$	$\begin{array}{r} 9 \\ + 2 \\ \hline 11 \end{array}$	$\begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array}$
2.	$\begin{array}{r} 6 \\ + 7 \\ \hline 13 \end{array}$	$\begin{array}{r} 6 \\ + 9 \\ \hline 15 \end{array}$	$\begin{array}{r} 8 \\ + 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 9 \\ + 7 \\ \hline 16 \end{array}$	$\begin{array}{r} 6 \\ + 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 8 \\ + 3 \\ \hline 11 \end{array}$	$\begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array}$
3.	$\begin{array}{r} 7 \\ + 4 \\ \hline 11 \end{array}$	$\begin{array}{r} 4 \\ + 6 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ + 7 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ + 8 \\ \hline 11 \end{array}$	$\begin{array}{r} 9 \\ + 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 9 \\ + 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 8 \\ + 6 \\ \hline 14 \end{array}$

Subtract.

	a	b	c	d	e	f
4.	$\begin{array}{r} 10 \\ - 8 \\ \hline 2 \end{array}$	$\begin{array}{r} 8 \\ - 6 \\ \hline 2 \end{array}$	$\begin{array}{r} 7 \\ - 4 \\ \hline 3 \end{array}$	$\begin{array}{r} 11 \\ - 3 \\ \hline 8 \end{array}$	$\begin{array}{r} 10 \\ - 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 14 \\ - 6 \\ \hline 8 \end{array}$
5.	$\begin{array}{r} 13 \\ - 5 \\ \hline 8 \end{array}$	$\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$	$\begin{array}{r} 15 \\ - 7 \\ \hline 8 \end{array}$	$\begin{array}{r} 13 \\ - 7 \\ \hline 6 \end{array}$	$\begin{array}{r} 12 \\ - 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 14 \\ - 7 \\ \hline 7 \end{array}$
6.	$\begin{array}{r} 12 \\ - 6 \\ \hline 6 \end{array}$	$\begin{array}{r} 9 \\ - 2 \\ \hline 7 \end{array}$	$\begin{array}{r} 17 \\ - 8 \\ \hline 9 \end{array}$	$\begin{array}{r} 11 \\ - 7 \\ \hline 4 \end{array}$	$\begin{array}{r} 13 \\ - 8 \\ \hline 5 \end{array}$	$\begin{array}{r} 11 \\ - 2 \\ \hline 9 \end{array}$

Compute.

	a	b	c	d	e	f
7.	$\begin{array}{r} 17 \\ - 9 \\ \hline 8 \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ + 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 14 \\ - 8 \\ \hline 6 \end{array}$	$\begin{array}{r} 13 \\ - 9 \\ \hline 4 \end{array}$
8.	$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$	$\begin{array}{r} 9 \\ - 5 \\ \hline 4 \end{array}$	$\begin{array}{r} 12 \\ - 9 \\ \hline 3 \end{array}$	$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$	$\begin{array}{r} 7 \\ + 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 5 \\ + 9 \\ \hline 14 \end{array}$



Add.

**a**

tens	ones
6	0
+	2
8	0

**b**

tens	ones
7	0
+	1
8	0

**c**

tens	ones
1	0
+	8
9	0

**d**

tens	ones
1	5
+	5
6	5

**e**

tens	ones
3	0
+	3
6	0

**2.**

tens	ones
5	4
+	1
6	7

tens	ones
6	6
+	2
8	8

tens	ones
3	1
+	3
6	3

tens	ones
2	5
+	2
4	8

tens	ones
3	4
+	2
5	5

Subtract.

**3.**

tens	ones
6	0
-	2
4	0

**b**

tens	ones
8	0
-	4
4	0

**c**

tens	ones
7	0
-	5
2	0

**d**

tens	ones
8	0
-	3
5	0

**e**

tens	ones
9	0
-	5
4	0

**4.**

tens	ones
4	8
-	4
	4

tens	ones
5	8
-	2
3	6

tens	ones
9	5
-	7
2	2

tens	ones
9	4
-	1
8	0

tens	ones
4	3
-	2
2	1

Compute.

**5.**

tens	ones
1	8
+	6
7	8

**b**

tens	ones
9	6
-	5
4	3

**c**

tens	ones
7	7
-	5
2	3

**d**

tens	ones
8	1
+	1
9	3

**e**

tens	ones
6	2
-	6
	0

**6.**

tens	ones
8	2
-	5
3	1

tens	ones
2	3
+	3
5	6

tens	ones
7	9
-	5
2	8

tens	ones
3	3
+	6
9	5

tens	ones
3	2
+	5
8	7

**7.**

tens	ones
1	1
+	7
8	9

tens	ones
9	6
-	2
7	1

tens	ones
1	2
+	3
4	3

tens	ones
4	3
-	2
2	0

tens	ones
2	5
-	1
1	2

Add. Part of the problem is done for you. Just finish it.

a

$$\begin{array}{r} / \\ 1. \quad 27 \\ + 23 \\ \hline 50 \end{array}$$

b

$$\begin{array}{r} / \\ 78 \\ + 13 \\ \hline 91 \end{array}$$

c

$$\begin{array}{r} / \\ 68 \\ + 24 \\ \hline 92 \end{array}$$

d

$$\begin{array}{r} / \\ 66 \\ + 18 \\ \hline 84 \end{array}$$

e

$$\begin{array}{r} / \\ 59 \\ + 28 \\ \hline 87 \end{array}$$

Add. Now you must do all the work.

a

$$\begin{array}{r} 1 \\ 2. \quad 18 \\ + 36 \\ \hline 54 \end{array}$$

b

$$\begin{array}{r} 1 \\ 68 \\ + 27 \\ \hline 95 \end{array}$$

c

$$\begin{array}{r} 1 \\ 36 \\ + 47 \\ \hline 83 \end{array}$$

d

$$\begin{array}{r} 1 \\ 32 \\ + 49 \\ \hline 81 \end{array}$$

e

$$\begin{array}{r} 1 \\ 28 \\ + 25 \\ \hline 53 \end{array}$$

3.  $\begin{array}{r} 1 \\ 74 \\ + 19 \\ \hline 93 \end{array}$

$\begin{array}{r} 1 \\ 67 \\ + 24 \\ \hline 91 \end{array}$

$\begin{array}{r} 1 \\ 24 \\ + 57 \\ \hline 81 \end{array}$

$\begin{array}{r} 1 \\ 26 \\ + 38 \\ \hline 64 \end{array}$

$\begin{array}{r} 1 \\ 67 \\ + 18 \\ \hline 85 \end{array}$

4. 42 boys and 49 girls went on a hike. How many children went? 91

5. They took 18 kites and 47 balls. How many toys did they take? 65

6. They saw 36 dogs and 29 cats. How many animals did they see? 65

7. They counted 29 bicycles and 65 cars. How many in all? 94

Practise.

a

$$\begin{array}{r} 1. \quad 48 \\ + 61 \\ \hline 109 \end{array}$$

b

$$\begin{array}{r} 55 \\ + 90 \\ \hline 145 \end{array}$$

c

$$\begin{array}{r} 74 \\ + 63 \\ \hline 137 \end{array}$$

d

$$\begin{array}{r} 46 \\ + 72 \\ \hline 118 \end{array}$$

e

$$\begin{array}{r} 91 \\ + 56 \\ \hline 147 \end{array}$$

2.  $\begin{array}{r} 63 \\ + 42 \\ \hline 105 \end{array}$

$\begin{array}{r} 81 \\ + 77 \\ \hline 158 \end{array}$

$\begin{array}{r} 40 \\ + 86 \\ \hline 126 \end{array}$

$\begin{array}{r} 35 \\ + 92 \\ \hline 127 \end{array}$

$\begin{array}{r} 67 \\ + 91 \\ \hline 158 \end{array}$

Subtract. The renaming is done for you.

$$\begin{array}{r} \text{a} \\ 3 \text{ } 14 \\ 4 \text{ } 4 \\ - 3 \text{ } 8 \\ \hline 6 \end{array}$$

$$\begin{array}{r} \text{b} \\ 6 \text{ } 12 \\ 7 \text{ } 2 \\ - 5 \text{ } 7 \\ \hline 15 \end{array}$$

$$\begin{array}{r} \text{c} \\ 7 \text{ } 18 \\ 8 \text{ } 8 \\ - 3 \text{ } 9 \\ \hline 49 \end{array}$$

$$\begin{array}{r} \text{d} \\ 8 \text{ } 15 \\ 9 \text{ } 5 \\ - 6 \text{ } 9 \\ \hline 26 \end{array}$$

$$\begin{array}{r} \text{e} \\ 3 \text{ } 10 \\ 4 \text{ } 0 \\ - 1 \text{ } 2 \\ \hline 28 \end{array}$$

Subtract. Now you must do the renaming.

$$\begin{array}{r} \text{a} \\ 8 \text{ } 11 \\ 9 \text{ } 1 \\ - 8 \text{ } 5 \\ \hline 6 \end{array}$$

$$\begin{array}{r} \text{b} \\ 7 \text{ } 13 \\ 8 \text{ } 3 \\ - 4 \text{ } 4 \\ \hline 39 \end{array}$$

$$\begin{array}{r} \text{c} \\ 4 \text{ } 13 \\ 5 \text{ } 3 \\ - 2 \text{ } 9 \\ \hline 24 \end{array}$$

$$\begin{array}{r} \text{d} \\ 6 \text{ } 12 \\ 7 \text{ } 2 \\ - 3 \text{ } 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} \text{e} \\ 5 \text{ } 11 \\ 6 \text{ } 1 \\ - 5 \text{ } 9 \\ \hline 2 \end{array}$$

$$\begin{array}{r} \text{a} \\ 3 \text{ } 18 \\ 4 \text{ } 8 \\ - 1 \text{ } 9 \\ \hline 29 \end{array}$$

$$\begin{array}{r} \text{b} \\ 7 \text{ } 11 \\ 8 \text{ } 1 \\ - 6 \text{ } 6 \\ \hline 15 \end{array}$$

$$\begin{array}{r} \text{c} \\ 3 \text{ } 10 \\ 4 \text{ } 0 \\ - 1 \text{ } 8 \\ \hline 22 \end{array}$$

$$\begin{array}{r} \text{d} \\ 8 \text{ } 11 \\ 9 \text{ } 1 \\ - 5 \text{ } 7 \\ \hline 34 \end{array}$$

$$\begin{array}{r} \text{e} \\ 7 \text{ } 16 \\ 8 \text{ } 6 \\ - 5 \text{ } 7 \\ \hline 29 \end{array}$$

$$\begin{array}{r} \text{a} \\ 6 \text{ } 13 \\ 7 \text{ } 3 \\ - 4 \text{ } 4 \\ \hline 29 \end{array}$$

$$\begin{array}{r} \text{b} \\ 4 \text{ } 16 \\ 5 \text{ } 6 \\ - 2 \text{ } 7 \\ \hline 29 \end{array}$$

$$\begin{array}{r} \text{c} \\ 8 \text{ } 13 \\ 9 \text{ } 3 \\ - 2 \text{ } 8 \\ \hline 65 \end{array}$$

$$\begin{array}{r} \text{d} \\ 7 \text{ } 10 \\ 8 \text{ } 0 \\ - 2 \text{ } 6 \\ \hline 54 \end{array}$$

$$\begin{array}{r} \text{e} \\ 3 \text{ } 11 \\ 4 \text{ } 1 \\ - 1 \text{ } 7 \\ \hline 24 \end{array}$$

$$\begin{array}{r} \text{a} \\ 8 \text{ } 10 \\ 9 \text{ } 0 \\ - 2 \text{ } 6 \\ \hline 64 \end{array}$$

$$\begin{array}{r} \text{b} \\ 6 \text{ } 16 \\ 7 \text{ } 6 \\ - 3 \text{ } 8 \\ \hline 38 \end{array}$$

$$\begin{array}{r} \text{c} \\ 4 \text{ } 10 \\ 5 \text{ } 0 \\ - 2 \text{ } 8 \\ \hline 22 \end{array}$$

$$\begin{array}{r} \text{d} \\ 7 \text{ } 15 \\ 8 \text{ } 5 \\ - 7 \text{ } 6 \\ \hline 9 \end{array}$$

$$\begin{array}{r} \text{e} \\ 4 \text{ } 17 \\ 5 \text{ } 7 \\ - 1 \text{ } 9 \\ \hline 38 \end{array}$$

Subtract.

$$\begin{array}{r} \text{a} \\ 172 \\ - 20 \\ \hline 152 \end{array}$$

$$\begin{array}{r} \text{b} \\ 126 \\ - 19 \\ \hline 107 \end{array}$$

$$\begin{array}{r} \text{c} \\ 186 \\ - 48 \\ \hline 138 \end{array}$$

$$\begin{array}{r} \text{d} \\ 166 \\ - 51 \\ \hline 115 \end{array}$$

$$\begin{array}{r} \text{e} \\ 153 \\ - 44 \\ \hline 109 \end{array}$$

$$\begin{array}{r} \text{a} \\ 156 \\ - 38 \\ \hline 118 \end{array}$$

$$\begin{array}{r} \text{b} \\ 164 \\ - 59 \\ \hline 105 \end{array}$$

$$\begin{array}{r} \text{c} \\ 199 \\ - 93 \\ \hline 106 \end{array}$$

$$\begin{array}{r} \text{d} \\ 190 \\ - 71 \\ \hline 119 \end{array}$$

$$\begin{array}{r} \text{e} \\ 191 \\ - 64 \\ \hline 127 \end{array}$$



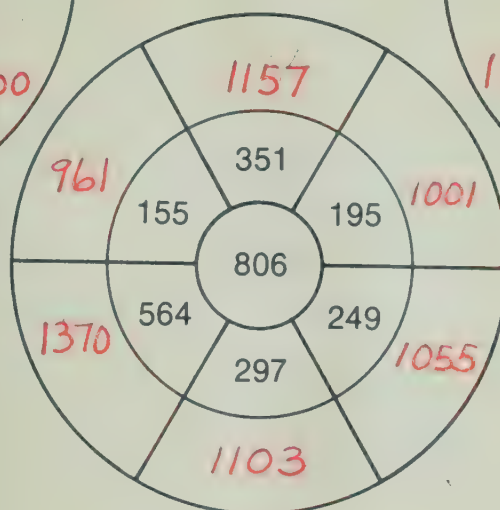
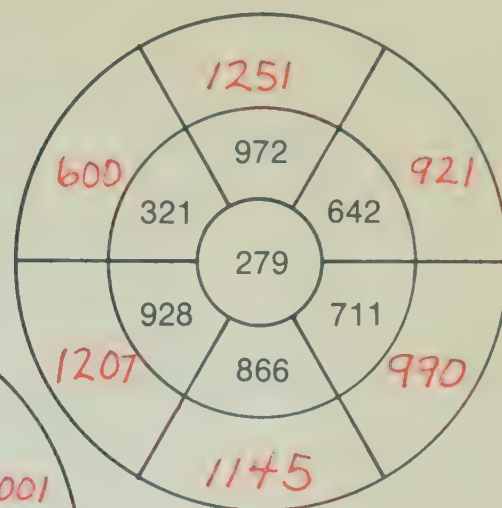
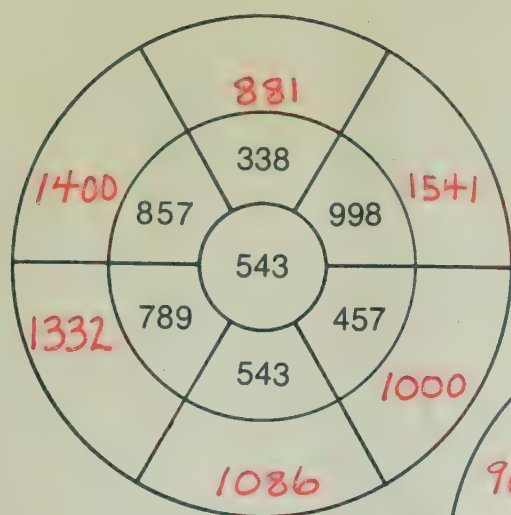
Add.

a	b	c	d	e
1. $\begin{array}{r} 273 \\ + 181 \\ \hline 454 \end{array}$	$\begin{array}{r} 166 \\ + 571 \\ \hline 737 \end{array}$	$\begin{array}{r} 574 \\ + 362 \\ \hline 936 \end{array}$	$\begin{array}{r} 135 \\ + 682 \\ \hline 817 \end{array}$	$\begin{array}{r} 327 \\ + 191 \\ \hline 518 \end{array}$
2. $\begin{array}{r} 377 \\ + 266 \\ \hline 643 \end{array}$	$\begin{array}{r} 238 \\ + 265 \\ \hline 503 \end{array}$	$\begin{array}{r} 579 \\ + 246 \\ \hline 825 \end{array}$	$\begin{array}{r} 468 \\ + 128 \\ \hline 596 \end{array}$	$\begin{array}{r} 448 \\ + 256 \\ \hline 704 \end{array}$
3. $\begin{array}{r} 441 \\ + 677 \\ \hline 1118 \end{array}$	$\begin{array}{r} 692 \\ + 393 \\ \hline 1085 \end{array}$	$\begin{array}{r} 959 \\ + 414 \\ \hline 1373 \end{array}$	$\begin{array}{r} 191 \\ + 329 \\ \hline 520 \end{array}$	$\begin{array}{r} 894 \\ + 866 \\ \hline 1760 \end{array}$
4. $\begin{array}{r} 997 \\ + 594 \\ \hline 1591 \end{array}$	$\begin{array}{r} 861 \\ + 271 \\ \hline 1132 \end{array}$	$\begin{array}{r} 354 \\ + 975 \\ \hline 1329 \end{array}$	$\begin{array}{r} 866 \\ + 156 \\ \hline 1022 \end{array}$	$\begin{array}{r} 514 \\ + 487 \\ \hline 1001 \end{array}$
5. $\begin{array}{r} 715 \\ + 382 \\ \hline 1097 \end{array}$	$\begin{array}{r} 719 \\ + 928 \\ \hline 1647 \end{array}$	$\begin{array}{r} 686 \\ + 947 \\ \hline 1633 \end{array}$	$\begin{array}{r} 694 \\ + 283 \\ \hline 977 \end{array}$	$\begin{array}{r} 114 \\ + 248 \\ \hline 362 \end{array}$
6. $\begin{array}{r} 127 \\ + 897 \\ \hline 1024 \end{array}$	$\begin{array}{r} 921 \\ + 592 \\ \hline 1513 \end{array}$	$\begin{array}{r} 538 \\ + 832 \\ \hline 1370 \end{array}$	$\begin{array}{r} 624 \\ + 594 \\ \hline 1218 \end{array}$	$\begin{array}{r} 778 \\ + 399 \\ \hline 1177 \end{array}$

Look at John's work. Ring the problems with the wrong answer.  
Then give the right answer.

a	b	c	d
7. $\begin{array}{r} 191 \\ + 329 \\ \hline 520 \end{array}$	$\begin{array}{r} 318 \\ + 354 \\ \hline 772 \end{array}$ 672	$\begin{array}{r} 359 \\ + 327 \\ \hline 786 \end{array}$ 686	$\begin{array}{r} 573 \\ + 573 \\ \hline 1156 \end{array}$ 1146
8. $\begin{array}{r} 596 \\ + 938 \\ \hline 1534 \end{array}$	$\begin{array}{r} 561 \\ + 476 \\ \hline 1047 \end{array}$ 1037	$\begin{array}{r} 818 \\ + 899 \\ \hline 1717 \end{array}$	$\begin{array}{r} 563 \\ + 896 \\ \hline 1469 \end{array}$ 1459

Add.



Complete this addition puzzle. Add the number on the left to each number across the top.

+	598	866	291	312
473	1071	1339	764	785
688	1286	1554	979	1000
709	1307	1575	1000	1021

Add.

a

$$\begin{array}{r} 3504 \\ + 3392 \\ \hline 6896 \end{array}$$

b

$$\begin{array}{r} 2251 \\ + 5044 \\ \hline 7295 \end{array}$$

c

$$\begin{array}{r} 7483 \\ + 1712 \\ \hline 9195 \end{array}$$

d

$$\begin{array}{r} 6668 \\ + 2024 \\ \hline 8692 \end{array}$$

Check these subtraction problems. Ring the wrong answers.

a

$$\begin{array}{r} 7/3 \\ 835 \\ - 492 \\ \hline 343 \end{array} \quad \begin{array}{r} 343 \\ + 492 \\ \hline 835 \end{array}$$

b

$$\begin{array}{r} 5/5/7 \\ 657 \\ - 479 \\ \hline 188 \end{array} \quad \begin{array}{r} 188 \\ + 479 \\ \hline 667 \end{array}$$

c

$$\begin{array}{r} 17 \\ 687 \\ - 418 \\ \hline 279 \end{array} \quad \begin{array}{r} 279 \\ + 418 \\ \hline 697 \end{array}$$

Subtract. Check your answers.

a

$$\begin{array}{r} 6/11/12 \\ 722 \\ - 384 \\ \hline 338 \end{array} \quad \begin{array}{r} 338 \\ + 384 \\ \hline 722 \end{array}$$

b

$$\begin{array}{r} 8/16 \\ 696 \\ - 188 \\ \hline 508 \end{array} \quad \begin{array}{r} 508 \\ + 188 \\ \hline 696 \end{array}$$

c

$$\begin{array}{r} 1/11 \\ 521 \\ - 114 \\ \hline 407 \end{array} \quad \begin{array}{r} 407 \\ + 114 \\ \hline 521 \end{array}$$

$$\begin{array}{r} 1/14/11 \\ 251 \\ - 183 \\ \hline 68 \end{array} \quad \begin{array}{r} 68 \\ + 183 \\ \hline 251 \end{array}$$

$$\begin{array}{r} 7/14 \\ 849 \\ - 381 \\ \hline 468 \end{array} \quad \begin{array}{r} 468 \\ + 381 \\ \hline 849 \end{array}$$

$$\begin{array}{r} 3/10/7 \\ 417 \\ - 238 \\ \hline 179 \end{array} \quad \begin{array}{r} 179 \\ + 238 \\ \hline 417 \end{array}$$

$$\begin{array}{r} 2/15 \\ 357 \\ - 191 \\ \hline 166 \end{array} \quad \begin{array}{r} 166 \\ + 191 \\ \hline 357 \end{array}$$

$$\begin{array}{r} 6/13/11 \\ 741 \\ - 472 \\ \hline 269 \end{array} \quad \begin{array}{r} 269 \\ + 472 \\ \hline 741 \end{array}$$

$$\begin{array}{r} 7/14 \\ 584 \\ - 247 \\ \hline 337 \end{array} \quad \begin{array}{r} 337 \\ + 247 \\ \hline 584 \end{array}$$

$$\begin{array}{r} 2/9/10 \\ 300 \\ - 128 \\ \hline 172 \end{array} \quad \begin{array}{r} 172 \\ + 128 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 8/9/10 \\ 900 \\ - 712 \\ \hline 188 \end{array} \quad \begin{array}{r} 188 \\ + 712 \\ \hline 900 \end{array}$$

$$\begin{array}{r} 6/9/10 \\ 700 \\ - 131 \\ \hline 569 \end{array} \quad \begin{array}{r} 569 \\ + 131 \\ \hline 700 \end{array}$$

$$\begin{array}{r} 7/9/10 \\ 800 \\ - 496 \\ \hline 304 \end{array} \quad \begin{array}{r} 304 \\ + 496 \\ \hline 800 \end{array}$$

$$\begin{array}{r} 8/9/10 \\ 900 \\ - 775 \\ \hline 125 \end{array} \quad \begin{array}{r} 125 \\ + 775 \\ \hline 900 \end{array}$$

$$\begin{array}{r} 5/9/10 \\ 600 \\ - 428 \\ \hline 172 \end{array} \quad \begin{array}{r} 172 \\ + 428 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 2/4/13 \\ 353 \\ - 164 \\ \hline 189 \end{array} \quad \begin{array}{r} 189 \\ + 164 \\ \hline 353 \end{array}$$

$$\begin{array}{r} 7/9/10 \\ 800 \\ - 543 \\ \hline 257 \end{array} \quad \begin{array}{r} 257 \\ + 543 \\ \hline 800 \end{array}$$

$$\begin{array}{r} 7/14 \\ 984 \\ - 155 \\ \hline 829 \end{array} \quad \begin{array}{r} 829 \\ + 155 \\ \hline 984 \end{array}$$



1. Arrange each set of three numbers so that you have a correct addition problem and a correct subtraction problem.

Example

$$\begin{array}{r} 148 \\ + 520 \\ \hline 668 \end{array} \quad \begin{array}{r} 668 \\ - 148 \\ \hline 520 \end{array}$$

a 988, 154, 834

$$\begin{array}{r} 154 \\ + 834 \\ \hline 988 \end{array} \quad \begin{array}{r} 834 \\ + 154 \\ \hline 988 \end{array} \quad \begin{array}{r} 988 \\ - 834 \\ \hline 154 \end{array} \quad \begin{array}{r} 988 \\ - 154 \\ \hline 834 \end{array}$$

b 483, 318, 801

$$\begin{array}{r} 318 \\ + 483 \\ \hline 801 \end{array} \quad \begin{array}{r} 483 \\ + 318 \\ \hline 801 \end{array} \quad \begin{array}{r} 801 \\ - 318 \\ \hline 483 \end{array} \quad \begin{array}{r} 801 \\ - 483 \\ \hline 318 \end{array}$$

c 476, 675, 199

$$\begin{array}{r} 476 \\ + 199 \\ \hline 675 \end{array} \quad \begin{array}{r} 199 \\ + 476 \\ \hline 675 \end{array} \quad \begin{array}{r} 675 \\ - 476 \\ \hline 199 \end{array} \quad \begin{array}{r} 675 \\ - 199 \\ \hline 476 \end{array}$$

1. Look at the number 7531.

a What is the value of the digit 3? 30

b What is the value of the digit 5? 500

c What is the value of the digit 7? 7000

d Is 7531 the largest number that can be written with these four digits? Yes

2. Ring the smallest number in each set of numbers.

a 634 or 436

b 731 or 713

c 5687 or 5786

d 59 or 61 or 43

e 800 or 600 or 1000

f 843 or 834 or 438

3. Compute. Look at the signs.

$$\begin{array}{r} a \quad 234 \\ + 254 \\ \hline 488 \end{array}$$

$$\begin{array}{r} b \quad 934 \\ - 621 \\ \hline 313 \end{array}$$

$$\begin{array}{r} c \quad 756 \\ + 237 \\ \hline 993 \end{array}$$

$$\begin{array}{r} d \quad 561 \\ - 343 \\ \hline 218 \end{array}$$

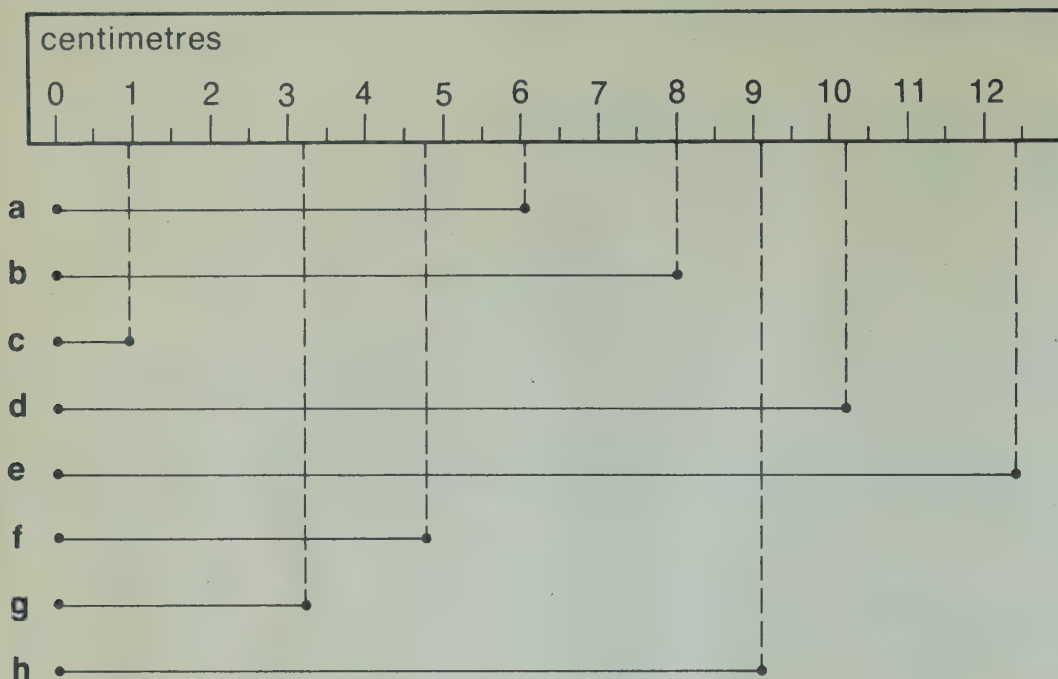
$$\begin{array}{r} e \quad 640 \\ - 527 \\ \hline 113 \end{array}$$

$$\begin{array}{r} f \quad 4348 \\ + 2235 \\ \hline 6583 \end{array}$$

$$\begin{array}{r} g \quad 900 \\ - 462 \\ \hline 438 \end{array}$$

$$\begin{array}{r} h \quad 2468 \\ + 1254 \\ \hline 3722 \end{array}$$

1. Measure each segment to the nearest centimetre.



a 6 cm

b 8 cm

c 1 cm

d 10 cm

e 12 cm

f 5 cm

g 3 cm

h 9 cm

2. Answer each of these questions.

$$10 \text{ mm} = 1 \text{ cm}$$

a 20 mm = 2 cm

b 30 mm = 3 cm

c 90 mm = 9 cm

d 40 mm = 4 cm

e 1 cm = 10 mm

f 3 cm = 30 mm

g 8 cm = 80 mm

h 10 cm = 100 mm

i 70 mm = 7 cm

j 7 cm = 70 mm

k 2 cm = 20 mm

l 50 mm = 5 cm

3. Rewrite using only centimetres.

$$1 \text{ m} = 100 \text{ cm}$$

a 1 m 41 cm = 141 cm

b 1 m 15 cm = 115 cm

c 4 m 91 cm = 491 cm

d 2 m 26 cm = 226 cm

1. Ring the unit of measure that you should use to measure the things pictured below.

a



millimetres or  
centimetres

b



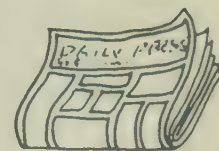
kilometres or  
centimetres

c



metres or  
centimetres

d



metres or  
centimetres

e



metres or  
centimetres

f



metres or  
kilometres

g



metres or  
kilometres

h



metres or  
centimetres

2. Use this chart to answer each question.

centimetre	$\text{--- --- }$
metre	(100 cm)
kilometre	(1000 m)

a  $3 \text{ m} = \underline{300} \text{ cm}$

b  $5 \text{ m} = \underline{500} \text{ cm}$

c  $2 \text{ km} = \underline{2000} \text{ m}$

d  $300 \text{ cm} = \underline{3} \text{ m}$

3. Ring the longer measurement.

a 1 mm or 1 cm

b 1 cm or 1 m

c 10 cm or 1 m

d 1 m or 1 km

e 30 m or 1 km

f 10 m or 1 km

g 5 mm or 1 cm

h 300 cm or 1 m

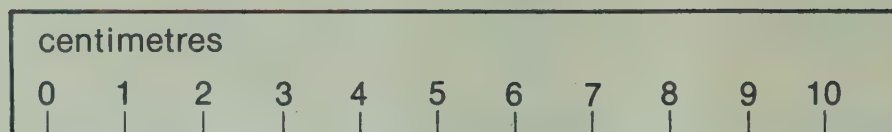
i 1 mm or 1 m

j 1 km or 1 cm

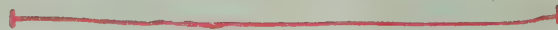


1. Draw a segment the length of each measurement.

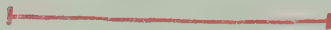
a 3 cm



b 7 cm



c 4 cm



1. Ring the shorter measurement.

a 2 cm or 1 km

c 100 cm or 10 m

e 500 m or 1 km

g 60 mm or 4 cm

i 1 mm or 1 km

k 10 m or 10 km

m 6 m or 300 cm

o 700 cm or 1 m

b 1 cm or 1 mm

d 10 mm or 5 cm

f 1 m or 1 cm

h 200 cm or 4 m

j 10 m or 1 km

l 10 mm or 10 cm

n 1000 mm or 10 cm

2. Ring the shortest measurement.

a 1 km

10 m

100 cm

b 1 cm

1 m

100 mm

c 100 cm

100 m

100 km

d 2 cm

2 m

10 mm

e 16 km

10 m

100 cm

f 3 m

30 mm

200 cm

g 10 mm

100 cm

1000 m

h 10 km

100 m

300 cm

1. Ring the fraction that tells how much of the whole is shaded.



a  $\frac{1}{4}$  or  $\frac{1}{2}$



b  $\frac{1}{4}$  or  $\frac{1}{5}$

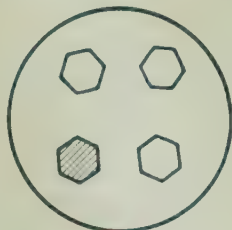


c  $\frac{1}{4}$  or  $\frac{1}{3}$

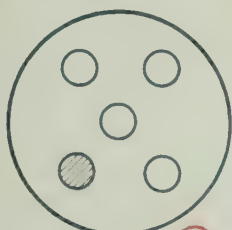


d  $\frac{1}{4}$  or  $\frac{1}{3}$

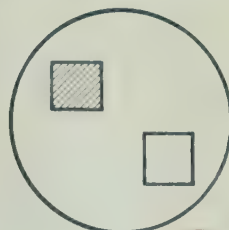
2. Ring the fraction that tells what fraction of the total is shaded.



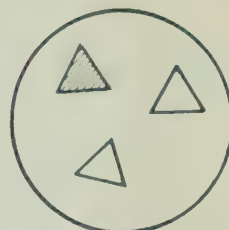
a  $\frac{1}{4}$  or  $\frac{1}{5}$



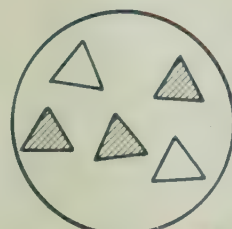
b  $\frac{1}{4}$  or  $\frac{1}{5}$



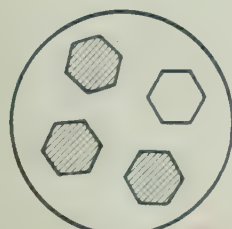
c  $\frac{1}{3}$  or  $\frac{1}{2}$



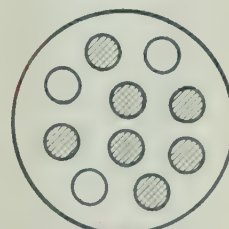
d  $\frac{1}{3}$  or  $\frac{1}{2}$



e  $\frac{2}{5}$  or  $\frac{3}{5}$



f  $\frac{1}{3}$  or  $\frac{3}{4}$

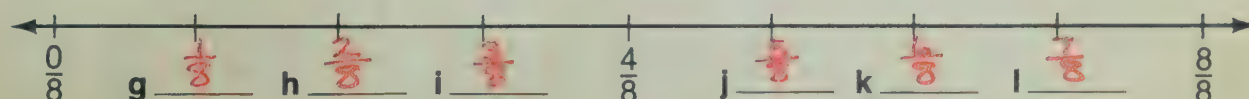
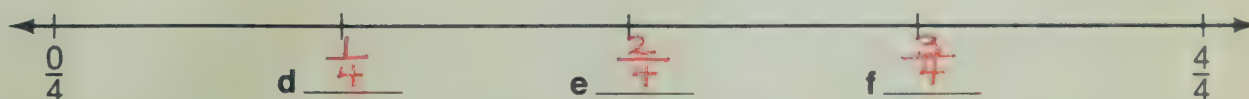
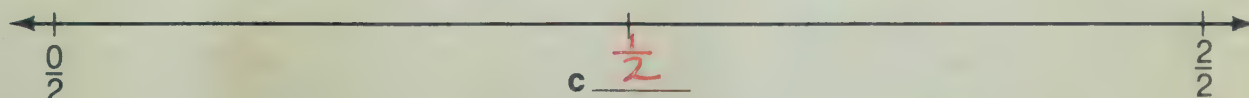


g  $\frac{7}{10}$  or  $\frac{3}{10}$



h  $\frac{1}{7}$  or  $\frac{7}{8}$

3. Complete the number lines.



4. Ring denominators of 3.

$\frac{3}{4}$

$\frac{2}{3}$

$\frac{3}{5}$

$\frac{1}{3}$

Write  $>$  or  $<$  in each ring.

- | a                                     | b                                  | c                                  | d                                  | e                                  |
|---------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 1. $\frac{1}{2} \bigcirc \frac{1}{3}$ | $\frac{1}{3} \bigcirc \frac{1}{4}$ | $\frac{1}{3} \bigcirc \frac{1}{6}$ | $\frac{1}{2} \bigcirc \frac{1}{8}$ | $\frac{1}{2} \bigcirc 1$           |
| 2. $\frac{1}{2} \bigcirc \frac{1}{4}$ | $\frac{1}{2} \bigcirc \frac{1}{6}$ | $\frac{1}{3} \bigcirc \frac{1}{8}$ | $\frac{1}{4} \bigcirc \frac{1}{6}$ | $\frac{1}{8} \bigcirc \frac{1}{6}$ |
| 3. $\frac{1}{6} \bigcirc \frac{1}{4}$ | $1 \bigcirc \frac{1}{6}$           | $\frac{1}{3} \bigcirc 1$           | $1 \bigcirc \frac{1}{8}$           | $\frac{1}{6} \bigcirc 1$           |
| 4. $\frac{1}{3} \bigcirc 0$           | $0 \bigcirc \frac{1}{6}$           | $\frac{1}{4} \bigcirc 1$           | $\frac{1}{3} \bigcirc 0$           | $\frac{1}{8} \bigcirc 0$           |

5. Ring numerators of 4.

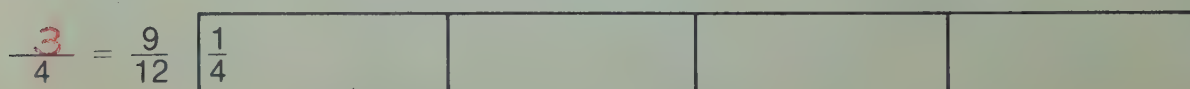
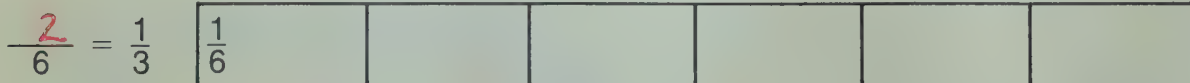
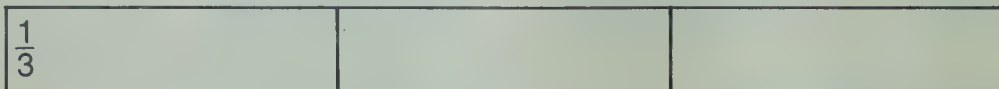
$$\frac{4}{5}$$

$$\frac{4}{7}$$

$$\frac{1}{4}$$

$$\frac{3}{4}$$

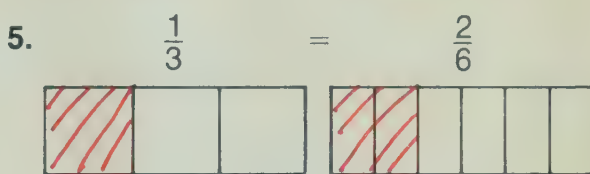
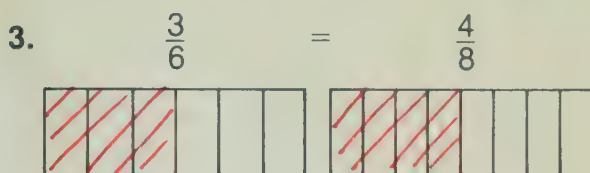
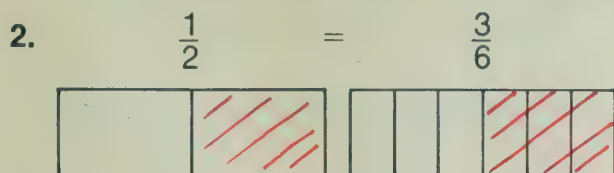
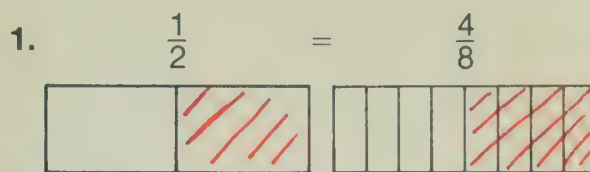
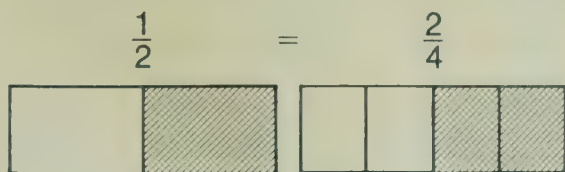
6. Each of these strips is 1 unit. Use the strips to complete the fraction names.



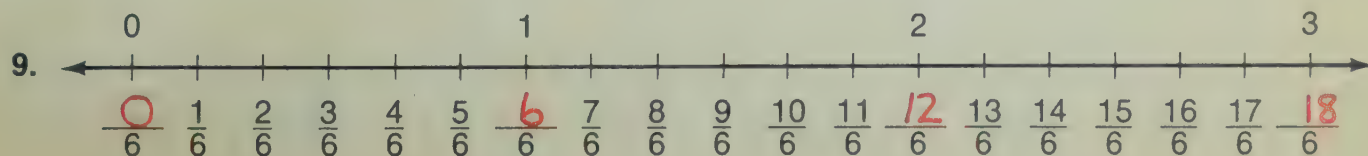
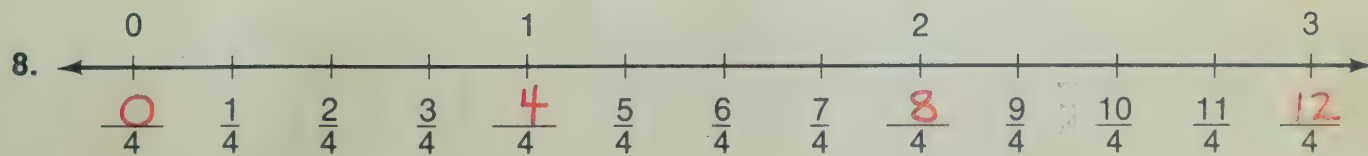
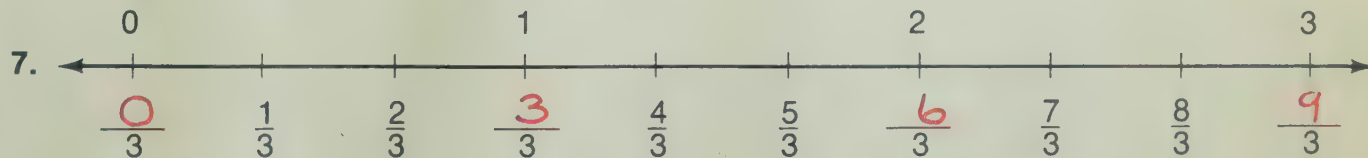
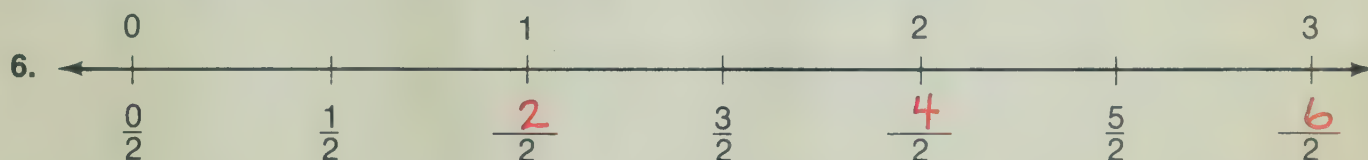


Shade the models to show that the fractions are the same size.

Example

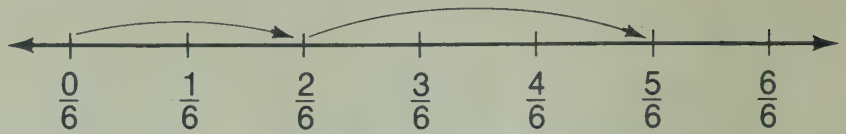


Complete each number line.

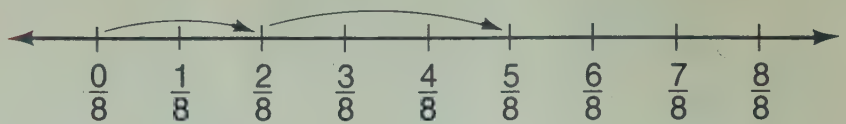


Write the addition problem shown on each number line.

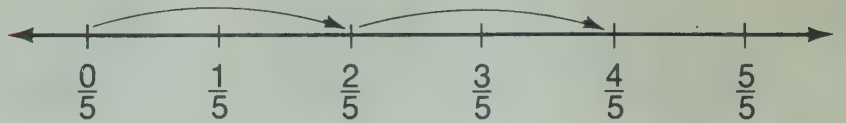
1.  $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$



2.  $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$



3.  $\frac{2}{5} + \frac{2}{5} = \frac{4}{5}$



Add. Shade the model to show your answer.

Example

$\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$



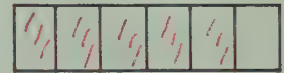
4.  $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$



5.  $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

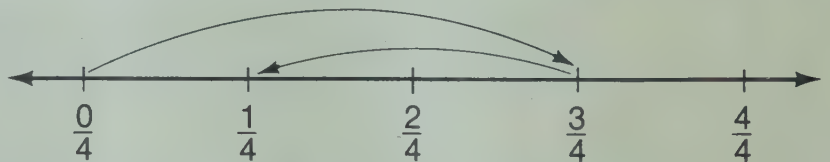


6.  $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

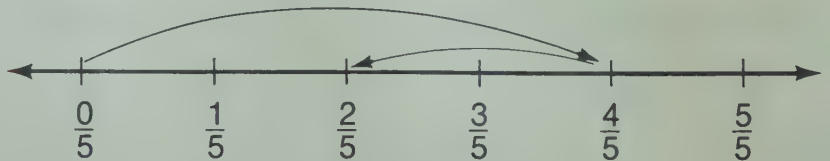


Write the subtraction problem shown on each number line.

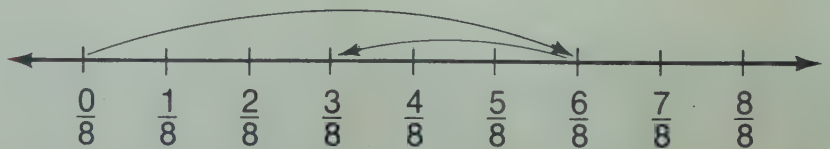
7.  $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$



8.  $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$



9.  $\frac{6}{8} - \frac{3}{8} = \frac{3}{8}$



Subtract.

a

10.  $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$

b

$\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$

c

$\frac{5}{6} - \frac{3}{6} = \frac{2}{6}$

1. What fraction of the whole is shaded?



a  $\frac{1}{4}$



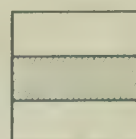
b  $\frac{5}{8}$



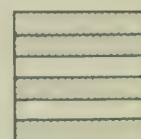
c  $\frac{4}{5}$



d  $\frac{1}{2}$



e  $\frac{1}{3}$



f  $\frac{4}{6}$

2. Write  $>$ ,  $<$ , or  $=$  in each ring.

a  $\frac{1}{4} < \frac{1}{2}$

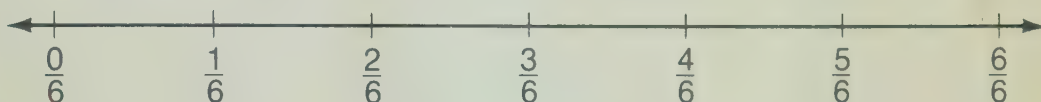
b  $\frac{1}{5} > \frac{1}{8}$

c  $\frac{1}{6} < \frac{1}{3}$

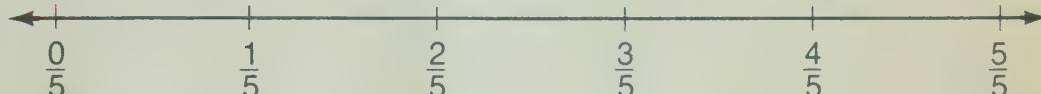
d  $\frac{2}{8} < \frac{3}{8}$

3. Add. Use the number line if you need it.

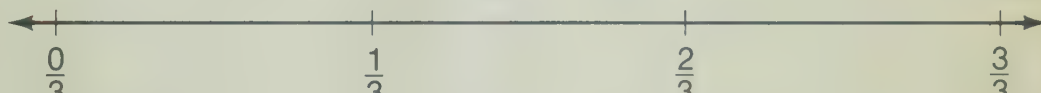
a  $\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$



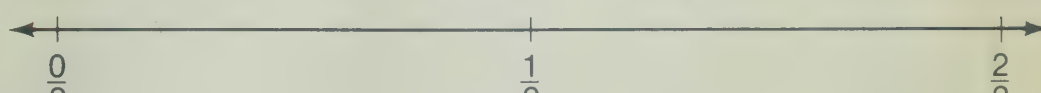
b  $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$



c  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

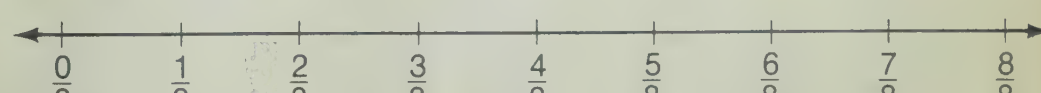


d  $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} \text{ or } 1$

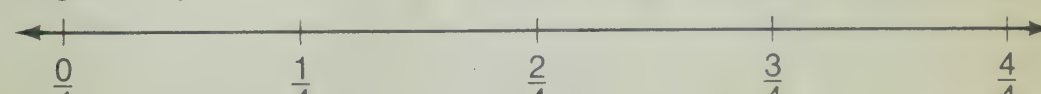


4. Subtract. Use the number line if you need it.

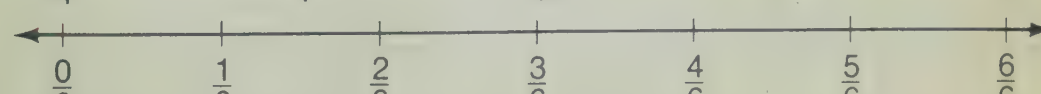
a  $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$



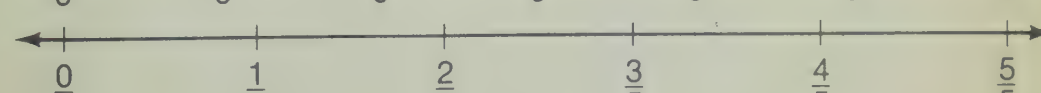
b  $\frac{4}{4} - \frac{2}{4} = \frac{2}{4}$



c  $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$



d  $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$



5. Ring denominators of 5.  
Mark X on numerators of 5.

~~5~~/  
6

4/  
5

1/  
5

~~5~~/  
9



Find the missing factor.

**a**

1.  $4 \times \underline{6} = 24$

2.  $\underline{6} \times 3 = 18$

3.  $\underline{3} \times 9 = 27$

4.  $8 \times \underline{2} = 16$

5.  $\underline{6} \times 8 = 48$

6.  $\underline{9} \times 7 = 63$

7.  $9 \times \underline{4} = 36$

8.  $4 \times \underline{4} = 16$

**b**

$\underline{5} \times 6 = 30$

$4 \times \underline{5} = 20$

$2 \times \underline{2} = 4$

$5 \times \underline{9} = 45$

$6 \times \underline{6} = 36$

$\underline{5} \times 7 = 35$

$\underline{7} \times 6 = 42$

$9 \times \underline{9} = 81$

**c**

$2 \times \underline{6} = 12$

$\underline{8} \times 7 = 56$

$\underline{4} \times 3 = 12$

$7 \times \underline{2} = 14$

$8 \times \underline{8} = 64$

$9 \times \underline{6} = 54$

$\underline{5} \times 9 = 45$

$\underline{4} \times 7 = 28$

**d**

$\underline{4} \times 8 = 32$

$4 \times \underline{9} = 36$

$7 \times \underline{6} = 42$

$3 \times \underline{7} = 21$

$\underline{8} \times 3 = 24$

$7 \times \underline{8} = 56$

$\underline{8} \times 9 = 72$

$\underline{7} \times 7 = 49$

Complete.

9. 12 in all.

2 trays.

How many in

each tray?  $2 \times \underline{6} = 12$ 

10. 8 in all.

4 trays.

How many in

each tray?  $4 \times \underline{2} = 8$ 

11. 15 in all.

3 trays.

How many in

each tray?  $3 \times \underline{5} = 15$ 

12. 18 in all.

2 trays.

How many in

each tray?  $2 \times \underline{9} = 18$ 

13. Find the missing factor.

**a**

	12	
3		<u>4</u>
4		<u>3</u>
6		<u>2</u>

**b**

	18	
2		<u>9</u>
3		<u>6</u>
9		<u>2</u>

**c**

	4	
1		<u>4</u>
2		<u>2</u>
4		<u>1</u>

**d**

	24	
1		<u>24</u>
3		<u>8</u>
8		<u>3</u>

**e**

	27	
3		<u>9</u>
9		<u>3</u>
27		<u>1</u>

## 1. Complete each division sentence and each missing-factor sentence.

Example

$8 \div 2 = \underline{4}$

$2 \times \underline{4} = 8$

**c**  $12 \div 4 = \underline{3}$

$4 \times \underline{3} = 12$

**f**  $64 \div 8 = \underline{8}$

$8 \times \underline{8} = 64$

**i**  $28 \div 4 = \underline{7}$

$4 \times \underline{7} = 28$

**a**  $9 \div 3 = \underline{3}$

$3 \times \underline{3} = 9$

**d**  $54 \div 6 = \underline{9}$

$6 \times \underline{9} = 54$

**g**  $25 \div 5 = \underline{5}$

$5 \times \underline{5} = 25$

**j**  $45 \div 5 = \underline{9}$

$5 \times \underline{9} = 45$

**b**  $10 \div 5 = \underline{2}$

$5 \times \underline{2} = 10$

**e**  $21 \div 3 = \underline{7}$

$3 \times \underline{7} = 21$

**h**  $72 \div 9 = \underline{8}$

$9 \times \underline{8} = 72$

**k**  $36 \div 4 = \underline{9}$

$4 \times \underline{9} = 36$

## 2. Complete each missing-factor sentence. Write each one as a division sentence.

Example

$8 \times \underline{2} = 16$

$\underline{16} \div \underline{8} = \underline{2}$

**c**  $\underline{4} \times 4 = 16$

$\underline{16} \div \underline{4} = \underline{4}$

**f**  $\underline{9} \times 3 = 27$

$\underline{27} \div \underline{3} = \underline{9}$

**i**  $4 \times \underline{6} = 24$

$\underline{24} \div \underline{4} = \underline{6}$

**a**  $2 \times \underline{2} = 4$

$\underline{4} \div \underline{2} = \underline{2}$

**d**  $\underline{8} \times 5 = 40$

$\underline{40} \div \underline{5} = \underline{8}$

**g**  $2 \times \underline{8} = 16$

$\underline{16} \div \underline{2} = \underline{8}$

**j**  $\underline{8} \times 4 = 32$

$\underline{32} \div \underline{4} = \underline{8}$

**b**  $3 \times \underline{2} = 6$

$\underline{6} \div \underline{3} = \underline{2}$

**e**  $\underline{6} \times 3 = 18$

$\underline{18} \div \underline{3} = \underline{6}$

**h**  $\underline{5} \times 4 = 20$

$\underline{20} \div \underline{4} = \underline{5}$

**k**  $5 \times \underline{3} = 15$

$\underline{15} \div \underline{5} = \underline{3}$

## 3. Arrange the symbols in each set to make a division sentence.

6	=
÷	
48	8

**a**  $\underline{48 \div 6 = 8}$   
or  $\underline{48 \div 8 = 6}$

21	÷
	3
7	=

**b**  $\underline{21 \div 3 = 7}$   
or  $\underline{21 \div 7 = 3}$

÷	5
	6
=	30

**c**  $\underline{30 \div 6 = 5}$   
or  $\underline{30 \div 5 = 6}$

1. Count by 2s to 18.

2, 4, 6, 8, 10, 12, 14, 16, 18

2. Count by 5s to 45.

5, 10, 15, 20, 25, 30, 35, 40, 45

3. Count by 8s to 72.

8, 16, 24, 32, 40, 48, 56, 64, 72

4. Count by 6s to 54.

6, 12, 18, 24, 30, 36, 42, 48, 54

5. Count by 3s to 27.

3, 6, 9, 12, 15, 18, 21, 24, 27

6. Count by 7s to 63.

7, 14, 21, 28, 35, 42, 49, 56, 63

7. Count by 4s to 36.

4, 8, 12, 16, 20, 24, 28, 32, 36

8. Count by 9s to 81.

9, 18, 27, 36, 45, 54, 63, 72, 81

Your completed work above can help with these problems.

**a**

9. How many  
2s in 16? 8

**b**

How many  
4s in 28? 7

**c**

How many  
3s in 12? 4

**d**

How many  
5s in 35? 7

10. How many  
8s in 72? 9

How many  
7s in 28? 4

How many  
6s in 36? 6

How many  
9s in 27? 3

11. How many  
7s in 49? 7

How many  
9s in 81? 9

How many  
4s in 20? 5

How many  
8s in 8? 1



1. Write each division problem in computational form.

Example

$$24 \div 8 \quad \underline{8 \overline{)24}}$$

a  $6 \div 2 \quad \underline{2 \overline{)6}}$

b  $14 \div 7 \quad \underline{7 \overline{)14}}$

c  $27 \div 9 \quad \underline{9 \overline{)27}}$

d  $24 \div 3 \quad \underline{3 \overline{)24}}$

e  $20 \div 5 \quad \underline{5 \overline{)20}}$

f  $12 \div 4 \quad \underline{4 \overline{)12}}$

g  $32 \div 8 \quad \underline{8 \overline{)32}}$

h  $63 \div 9 \quad \underline{9 \overline{)63}}$

2. Write each problem using the  $\div$  symbol.

Example

$$2 \overline{)10} \quad 10 \div 2$$

a  $5 \overline{)45} \quad 45 \div 5$

b  $6 \overline{)42} \quad 42 \div 6$

c  $8 \overline{)64} \quad 64 \div 8$

d  $9 \overline{)81} \quad 81 \div 9$

e  $8 \overline{)56} \quad 56 \div 8$

f  $6 \overline{)54} \quad 54 \div 6$

g  $9 \overline{)18} \quad 18 \div 9$

h  $9 \overline{)72} \quad 72 \div 9$

3. Who made the best guess for each problem? Ring the person's name.

a  $7 \overline{)35}$

Bill guessed 3 7s in 35.

Bob guessed 4 7s in 35.

Sally guessed 5 7s in 35.

b  $3 \overline{)21}$

Bill guessed 6 3s in 21.

Bob guessed 7 3s in 21.

Sally guessed 8 3s in 21.

c  $9 \overline{)36}$

Bill guessed 7 9s in 36.

Bob guessed 5 9s in 36.

Sally guessed 4 9s in 36.

d  $8 \overline{)56}$

Bill guessed 7 8s in 56.

Bob guessed 6 8s in 56.

Sally guessed 9 8s in 56.

Complete these division problems. Don't forget to put the answer in the right place.

a

4.  $2 \overline{)6} \quad \underline{3}$

b

2.  $2 \overline{)18} \quad \underline{9}$

c

6.  $6 \overline{)36} \quad \underline{6}$

d

6.  $6 \overline{)54} \quad \underline{9}$

e

4.  $4 \overline{)24} \quad \underline{6}$

5.  $6 \overline{)42} \quad \underline{7}$

7.  $7 \overline{)21} \quad \underline{3}$

8.  $8 \overline{)72} \quad \underline{9}$

7.  $7 \overline{)49} \quad \underline{7}$

8.  $8 \overline{)32} \quad \underline{4}$

6.  $7 \overline{)14} \quad \underline{2}$

7.  $7 \overline{)56} \quad \underline{8}$

8.  $8 \overline{)48} \quad \underline{6}$

9.  $9 \overline{)18} \quad \underline{2}$

9.  $9 \overline{)45} \quad \underline{5}$

7.  $9 \overline{)27} \quad \underline{3}$

7.  $7 \overline{)63} \quad \underline{9}$

7.  $7 \overline{)42} \quad \underline{6}$

8.  $8 \overline{)64} \quad \underline{8}$

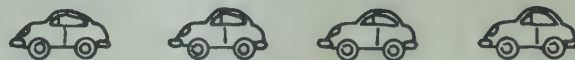
9.  $9 \overline{)72} \quad \underline{8}$

Divide.

a	b	c	d	e
1. $6 \overline{)24}$ <sup>4</sup>	$5 \overline{)45}$ <sup>9</sup>	$4 \overline{)8}$ <sup>2</sup>	$6 \overline{)12}$ <sup>2</sup>	$5 \overline{)20}$ <sup>4</sup>
2. $3 \overline{)12}$ <sup>4</sup>	$6 \overline{)36}$ <sup>6</sup>	$3 \overline{)24}$ <sup>8</sup>	$9 \overline{)54}$ <sup>6</sup>	$5 \overline{)30}$ <sup>6</sup>
3. $8 \overline{)40}$ <sup>5</sup>	$7 \overline{)21}$ <sup>3</sup>	$8 \overline{)56}$ <sup>7</sup>	$9 \overline{)63}$ <sup>7</sup>	$9 \overline{)81}$ <sup>9</sup>

1. There were 12 toy cars.

- a If 2 toy cars were placed in each box, how many boxes would there be?

6

- b If 3 toy cars were placed in each box, how many boxes would there be?

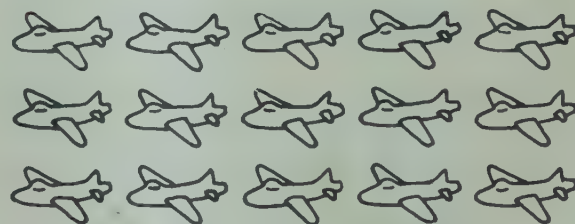
4

- c If 4 toy cars were placed in each box, how many boxes would there be?

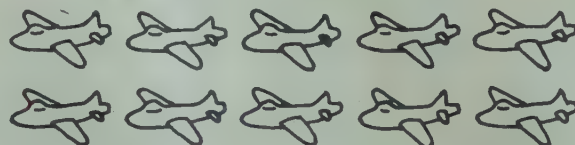
3

2. There were 28 toy airplanes.

- a If 5 toy airplanes were placed in each box, how many boxes would there be?

6

- b If 6 toy airplanes were placed in each box, how many boxes would there be?

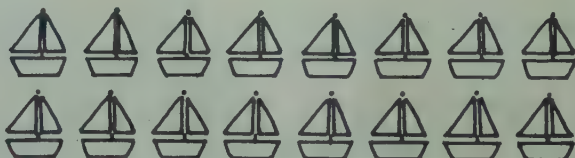
5

- c If 7 toy airplanes were placed in each box, how many boxes would there be?

4

3. There were 32 toy ships.

- a If 8 toy ships were placed in each box, how many boxes would there be?

4

- b If 32 toy ships were placed in each box, how many boxes would there be?

1

1. Ring the unit you would use to measure each object.



a gram or kilogram



b gram or kilogram



c gram or kilogram



d gram or kilogram



e gram or kilogram



f gram or kilogram



g kilogram or gram



h kilogram or gram



i kilogram or gram



j kilogram or gram



k kilogram or gram



l kilogram or gram

2. Ring the unit you would use to measure the mass of each object.

a a boat

gram or kilogram

b a pencil

gram or kilogram

c a desk

gram or kilogram

d an egg

gram or kilogram

e a clock

gram or kilogram

3. Draw a picture of something whose mass could be measured in kilograms.

*Drawings will vary.*

4. Draw a picture of something whose mass could be measured in grams.

*Drawings will vary.*



1. Ring the heavier one.

$$1 \text{ kg} = 1000 \text{ g}$$

a 1 kg or 1 g

b 2 kg or 1000 g

c 1 kg or 2000 g

2. What mass does each scale show?



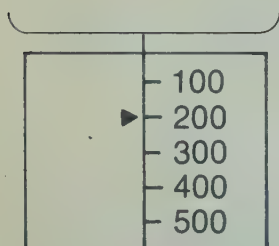
a 100 g



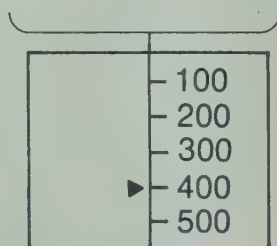
b 130 g



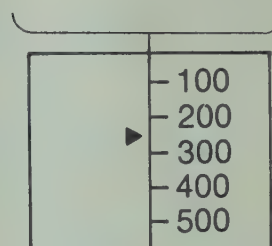
c 25 g



d 200 g



e 400 g



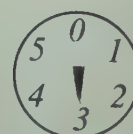
f 250 g



g 2 kg



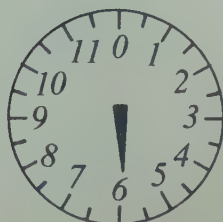
h 5 kg



i 3 kg



j 8 kg



k 6 kg



l 10 kg

1. Ring the unit you use to measure each object.



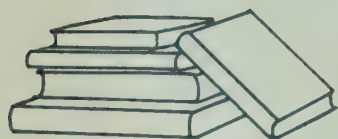
a kilogram or gram



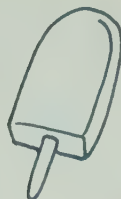
b kilogram or gram



c kilogram or gram



d kilogram or gram



e kilogram or gram



f kilogram or gram

2. Ring true or false for each sentence.

a Your mass is measured in kilograms.

true or false

b A gram is heavier than a kilogram.

true or false

c 2 kg of rocks have a greater mass than 2 kg of feathers.

true or false

d You use grams to measure the mass of a dog.

true or false

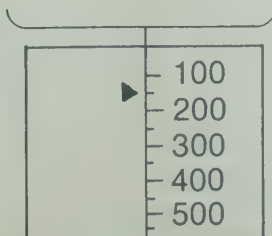
e 1 g is the same as 10 kg.

true or false

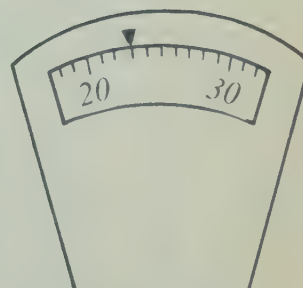
3. What mass is shown on each scale?



a 7 g

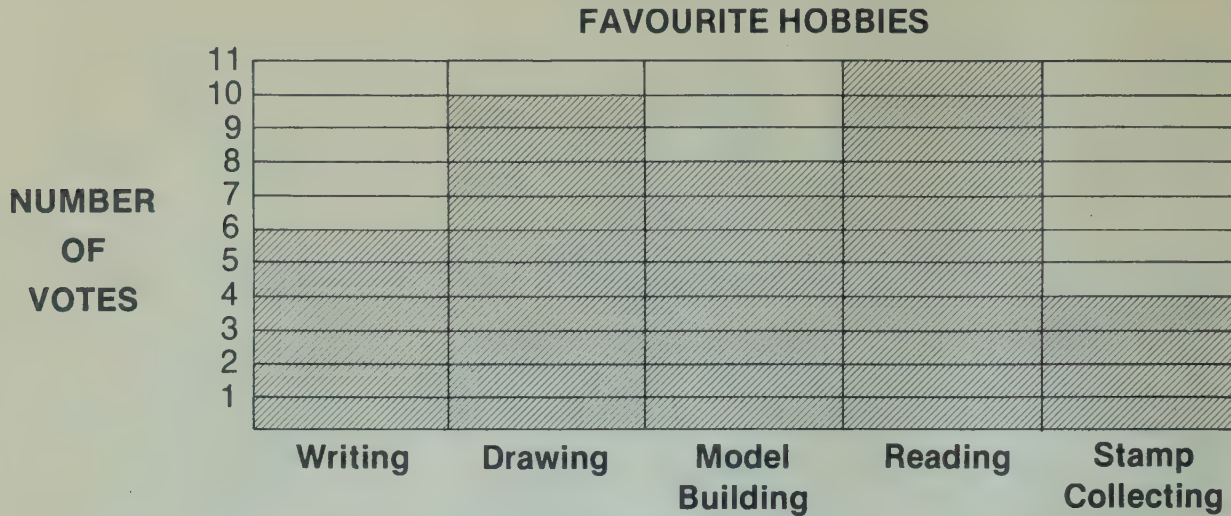


b 150 g



c 23 kg

Fred made a graph to show what the favourite hobbies were of the boys and girls in his class.



1. Write the number of votes the graph shows for each hobby.

- a writing 6      b drawing 10      c model building 8  
 d reading 11      e stamp collecting 4

2. How many voted for their favourite hobbies? 39

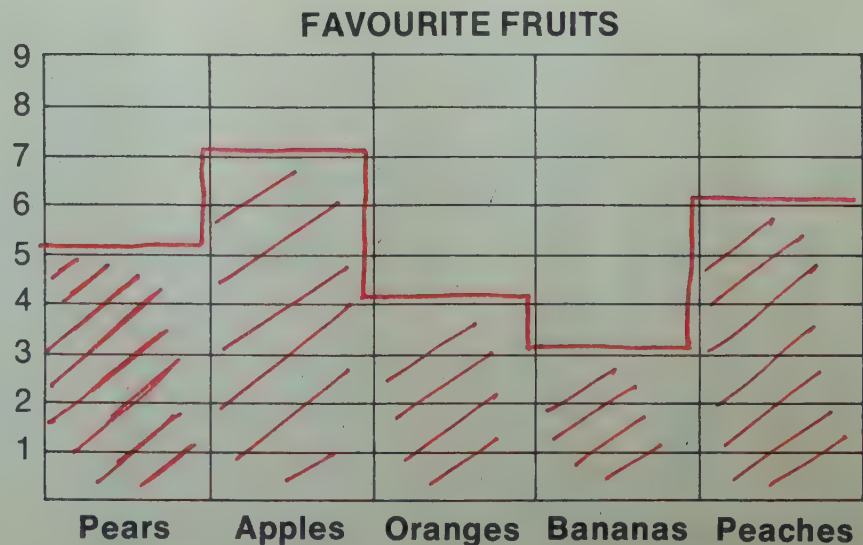
3. What hobby got the most votes? Reading

4. What was the title of Fred's graph? Favourite Hobbies

5. Fred made this tally chart showing the class's favourite fruits.  
 Use the tally chart to complete the graph.

Favourite Fruits	
pears	
apples	
oranges	
bananas	
peaches	/

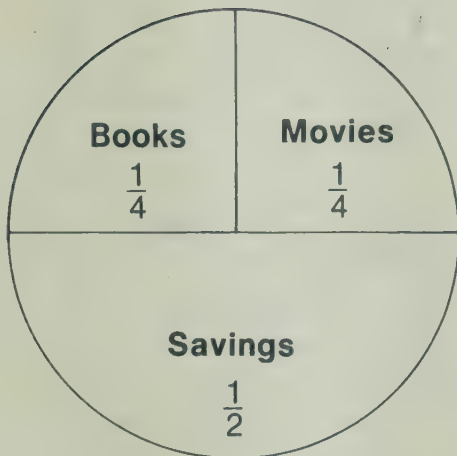
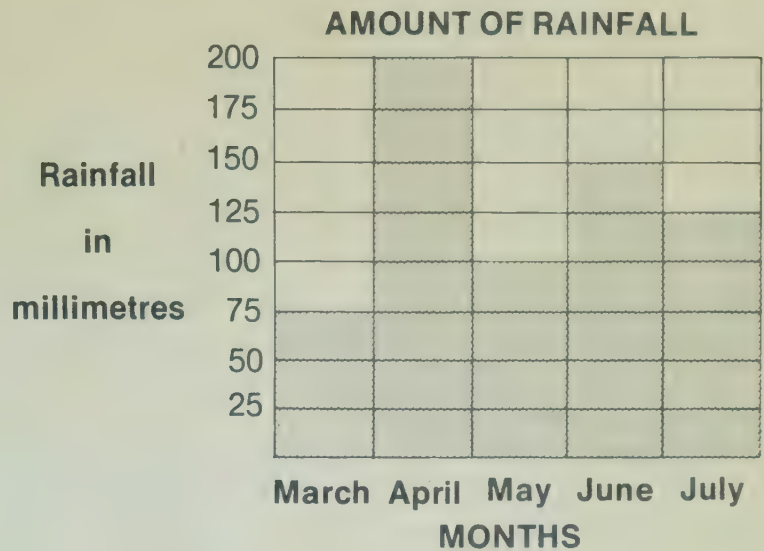
**NUMBER  
OF  
VOTES**





1. In what month did it  
rain 75 mm? March

2. How many millimetres did it  
rain in July? 125 mm



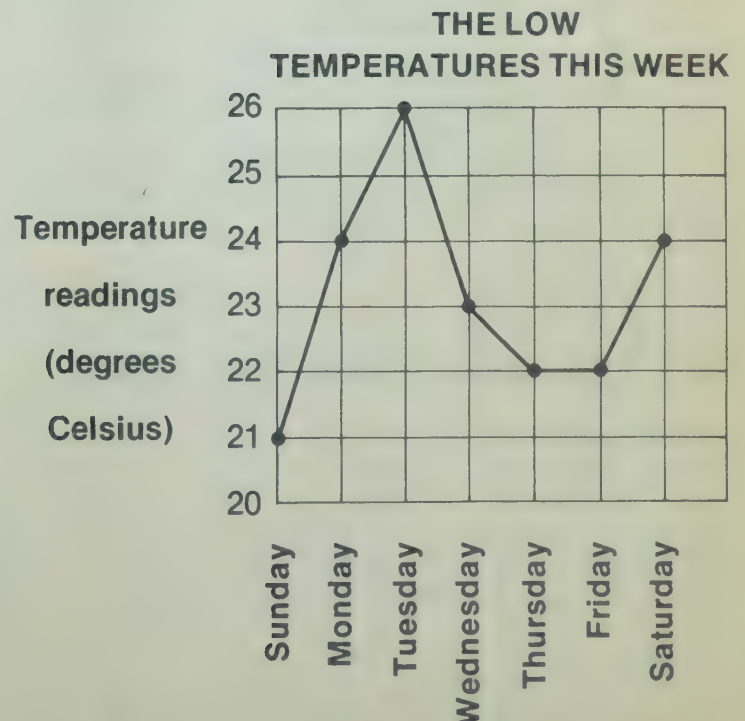
3. What fraction of his money  
did Fred spend on books  
and movies?  $\frac{1}{2}$

4. What fraction of his money  
did Fred save?  $\frac{1}{2}$

5. What was the low  
temperature Tuesday? 26°C

6. What was the lowest  
temperature of the week? 21°C

7. What day had the  
lowest temperature? Sunday

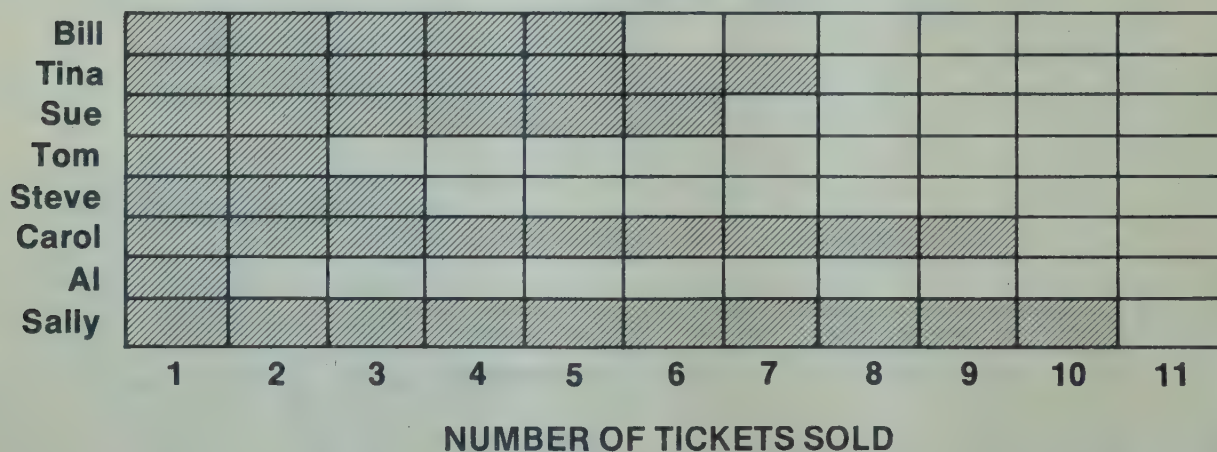


Use the calendar to answer each question.

1. What month is shown on this calendar? January
2. What year is shown? 1994
3. What day of the week will January 1 be? Saturday
4. What day of the week will January 20 be? Thursday
5. What day of the week will February 1, 1994 be? Tuesday

1994	January					1994
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

TICKETS SOLD BY BILL AND HIS CLASSMATES



1. Look at the graph. Answer these questions.

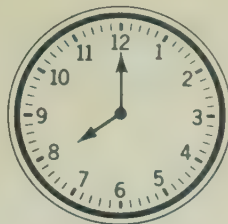
- a Who sold the most tickets? Sally
- b Who sold the least tickets? Al
- c Does the graph tell how many people sold tickets? Yes
- d Does the graph tell who bought the tickets? No
- e How many tickets did Sue sell? 6 tickets
- f How many tickets did Tom sell? 2 tickets

Write the time shown by each clockface.

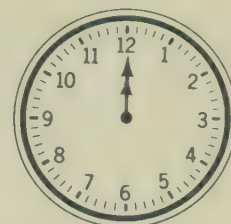
1. Example



3 : 0 0



a 8 : 0 0



b 12 : 0 0



c 8 : 2 0



d 2 : 5 0



e 3 : 3 5



f 10 : 1 0



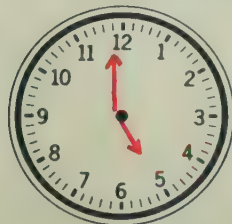
g 6 : 0 5



h 11 : 2 5

Draw the clock's hands to show each time.

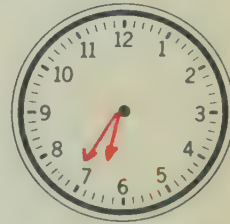
2.



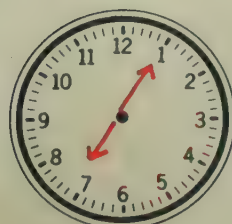
a 5:00



b 8:30



c 6:35



d 7:05



e 3:55



f 2:40



## 1. Ring the right answer.

Example

How many minutes  
in an hour?24 or 60a How many hours  
in a day?24 or 60b How many minutes  
in a half hour?30 or 45c How many minutes in  
three quarters of an hour?30 or 45d How many minutes in a  
quarter of an hour?15 or 12e When you get up in  
the morning is ita.m. or p.m.?

## 2. You may use the clock to answer these.

a From 1:00 to 1:10 it is 10 minutes.b From 3:00 to 3:40 it is 40 minutes.c From 2:45 to 3:00 it is 15 minutes.d From 1:50 to 2:10 it is 20 minutes.e From 4:10 to 5:05 it is 55 minutes.f From 8:20 to 9:20 it is 60 minutes.g From 3:45 to 4:35 it is 50 minutes.

3. Sue was to be home at 5:00 p.m.

She got home at 5:45 p.m.

How many minutes was  
she late?45

4. He left at 3:10 p.m.

He got there at 3:55 p.m.

How many minutes did  
it take to get there?45

5. Al had to work 1 hour.

He started at 5:00 p.m.

What time did he finish? 6:00 p.m.

6. Rita had to work 1 hour.

She started at 8:45 a.m.

What time did she finish? 9:45 a.m.

## 7. Look at this bus schedule. It takes a bus 45 minutes to make a trip.

Write the time each bus should arrive.

a Bus leaves at 7:00 a.m.

Bus arrives at 7:45 a.m.

b Bus leaves at 8:40 a.m.

Bus arrives at 9:25 a.m.

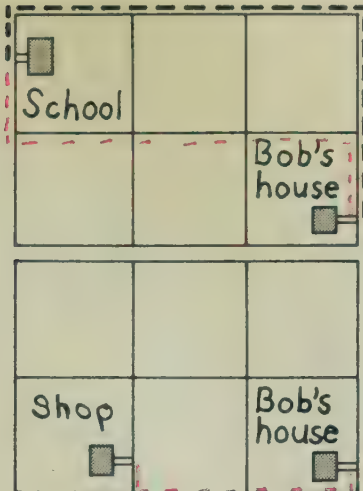
c Bus leaves at 6:45 p.m.

Bus arrives at 7:30 p.m.

d Bus leaves at 10:40 p.m.

Bus arrives at 11:25 p.m.

1. This is a map of Bob's neighbourhood. Each square equals one square block. The heavy dotted line shows the way Bob walks to school.



- a Draw a different way for Bob to walk to school. (Be sure to stay on the sidewalk.)
- b Is your way to school shorter than Bob's? Yes
- c This is another map of Bob's neighbourhood. Draw the shortest way for Bob to walk to the shop. (Remember, stay on the sidewalk.)

2. Bob wants to buy several items. He wants to get the most for his money. Mark from which shop he should buy each item. You may use the chart at the right if you need help.

1 m = 100 cm  
1 l = 1000 ml  
1 kg = 1000 g  
1 km = 1000 m

Shop X	Shop Y	Bob should buy from
a 500 ml of apple juice, 15¢	1 l of apple juice, 32¢	<u>Shop X</u>
b 2 l of orange juice, 61¢	2 l of orange juice, 60¢	<u>Shop Y</u>
c 125 cm of kite string, 21¢	1 m of kite string, 21¢	<u>Shop X</u>
d 500 g of nuts, 99¢	250 g of nuts, 59¢	<u>Shop X</u>
e 150 cm of rope, 87¢	2 m of rope, 87¢	<u>Shop Y</u>

Complete each sentence to make it true.

- |   |   |  |
|---|---|--|
| <p>a</p> <p>3. 2 l = <u>2000</u> ml</p> <p>4. 5 kg = <u>5000</u> g</p> <p>5. 3 km = <u>3000</u> m</p> <p>6. 300 cm = <u>3</u> m</p> | <p>b</p> <p>4 l = <u>4000</u> ml</p> <p>3 kg = <u>3000</u> g</p> <p>1 km = <u>1000</u> m</p> <p>2 m = <u>200</u> cm</p> | <p>c</p> <p>1000 ml = <u>1</u> l</p> <p>2000 g = <u>2</u> kg</p> <p>2000 m = <u>2</u> km</p> |
|---|---|--|

Add.

Example

$$\begin{array}{r} 4 \text{ g} \\ + 7 \text{ g} \\ \hline 11 \text{ g} \end{array}$$

$$\begin{array}{r} 1. \quad 6 \text{ cm} \\ + 3 \text{ cm} \\ \hline 9 \text{ cm} \end{array}$$

$$\begin{array}{r} 2. \quad 5 \text{ m} \\ + 8 \text{ m} \\ \hline 13 \text{ m} \end{array}$$

$$\begin{array}{r} 3. \quad 9 \text{ l} \\ + 5 \text{ l} \\ \hline 14 \text{ l} \end{array}$$

$$\begin{array}{r} 4. \quad 43 \text{ cm} \\ + 52 \text{ cm} \\ \hline 95 \text{ cm} \end{array}$$

$$\begin{array}{r} 5. \quad 34 \text{ m} \\ + 25 \text{ m} \\ \hline 59 \text{ m} \end{array}$$

$$\begin{array}{r} 6. \quad 17 \text{ kg} \\ + 32 \text{ kg} \\ \hline 49 \text{ kg} \end{array}$$

$$\begin{array}{r} 7. \quad 26 \text{ m} \\ + 43 \text{ m} \\ \hline 69 \text{ m} \end{array}$$

$$\begin{array}{r} 8. \quad 61 \text{ ml} \\ + 33 \text{ ml} \\ \hline 94 \text{ ml} \end{array}$$

$$\begin{array}{r} 9. \quad 77 \text{ km} \\ + 83 \text{ km} \\ \hline 160 \text{ km} \end{array}$$

$$\begin{array}{r} 10. \quad 66 \text{ l} \\ + 67 \text{ l} \\ \hline 133 \text{ l} \end{array}$$

$$\begin{array}{r} 11. \quad 53 \text{ g} \\ + 46 \text{ g} \\ \hline 99 \text{ g} \end{array}$$

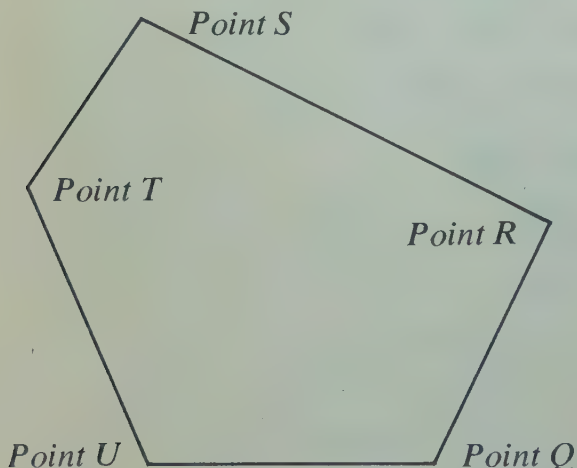
$$\begin{array}{r} 12. \quad 13 \text{ kg} \\ + 52 \text{ kg} \\ \hline 65 \text{ kg} \end{array}$$

$$\begin{array}{r} 13. \quad 26 \text{ km} \\ + 43 \text{ km} \\ \hline 69 \text{ km} \end{array}$$

$$\begin{array}{r} 14. \quad 53 \text{ kl} \\ + 46 \text{ kl} \\ \hline 99 \text{ kl} \end{array}$$

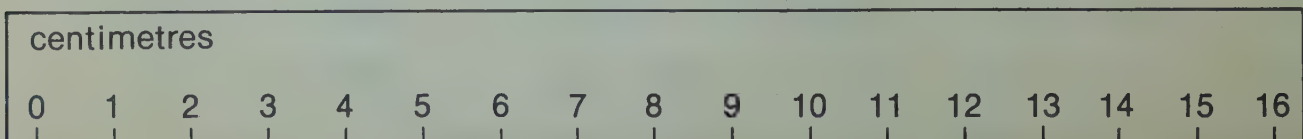
$$\begin{array}{r} 15. \quad 30 \text{ g} \\ + 17 \text{ g} \\ \hline 47 \text{ g} \end{array}$$

1. Measure the distances. Use your centimetre rule. If you don't have one, cut out the rule at the bottom of the page.



About how many centimetres between each pair of points?

- |                    |                    |
|--------------------|--------------------|
| a Q and R <u>3</u> | b Q and S <u>7</u> |
| c Q and T <u>6</u> | d Q and U <u>4</u> |
| e R and S <u>6</u> | f R and T <u>7</u> |
| g R and U <u>6</u> | h R and Q <u>3</u> |
| i S and T <u>3</u> | j S and U <u>6</u> |
| k S and Q <u>7</u> | l S and R <u>6</u> |





Write which unit is the right one. metres or centimetres

1. Janice's height 117 centimetres
2. a door's height 245 centimetres
3. a room's length 5 metres

1. Write the time each clockface shows.



a 11:00



b 7:30



c 1:15



d 8:45

2. They had to work 45 minutes.

- a Tom started at 2:00 p.m. When did he finish? 2:45 p.m.
- b Mary started at 4:30 p.m. When did she finish? 5:15 p.m.
- c Sally started at 8:15 p.m. When did she finish? 9:00 p.m.
- d Ken started at 10:45 a.m. When did he finish? 11:30 a.m.

3. Answer these questions.

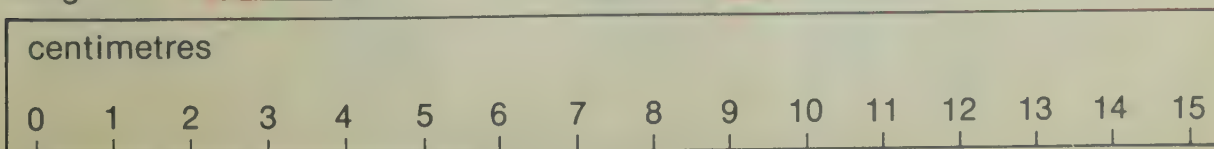
- a 10 m and 29 m more. How many metres in all? 39 m
- b 6 mm and 15 mm more. How many millimetres in all? 21 mm
- c 8 m and 4 m more. How many metres in all? 12 m
- d 27 cm and 48 cm more. How many centimetres in all? 75 cm
- e 46 cm and 54 cm more. How many centimetres in all? 100 cm

4. Measure the length and width of this page. Use your centimetre rule.

Cut out the rule below if you do not have one. Accept reasonable answers.

length 28 cm

width 21 cm



1. Write the missing odd numbers.

1, 3, 5, 7, 9, 11, 13, 15,  
17, 19, 21, 23, 25, 27, 29, 31

2. Write the missing even numbers.

2, 4, 6, 8, 10, 12, 14, 16,  
18, 20, 22, 24, 26, 28, 30, 32

3. Ring the odd number in each pair.

a 21 or 22      b 56 or 47      c 91 or 52      d 87 or 36  
 e 19 or 76      f 43 or 98      g 110 or 119      h 253 or 366

4. When you add odd numbers, are your answers odd or even? even

5. Try these to check your answer in problem 4.

a	b	c	d	e	f
7	33	71	135	173	357
+ 9	+ 51	+ 33	+ 13	+ 353	+ 159
<u>16</u>	<u>84</u>	<u>104</u>	<u>148</u>	<u>526</u>	<u>516</u>

6. When you add even numbers, are your answers odd or even? even

7. Try these to check your answer in problem 6.

a	b	c	d	e	f
8	26	44	426	142	224
+ 6	+ 62	+ 82	+ 42	+ 284	+ 688
<u>14</u>	<u>88</u>	<u>126</u>	<u>468</u>	<u>426</u>	<u>912</u>

8. When you add one even number and one odd number,  
 is your answer even or odd? odd

9. Try these to check your answer in problem 8.

a	b	c	d	e	f
4	35	64	826	535	648
+ 7	+ 42	+ 53	+ 31	+ 284	+ 179
<u>11</u>	<u>77</u>	<u>117</u>	<u>857</u>	<u>819</u>	<u>827</u>

1. When you subtract even numbers, is your answer odd or even? even

2. Try these to check your answer in problem 1.

a	b	c	d	e	f
$\begin{array}{r} 12 \\ - 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 64 \\ - 22 \\ \hline 42 \end{array}$	$\begin{array}{r} 48 \\ - 26 \\ \hline 22 \end{array}$	$\begin{array}{r} 82 \\ - 6 \\ \hline 76 \end{array}$	$\begin{array}{r} 464 \\ - 28 \\ \hline 436 \end{array}$	$\begin{array}{r} 862 \\ - 286 \\ \hline 576 \end{array}$

3. When you subtract odd numbers, is your answer odd or even? even

4. Try these to check your answer in problem 3.

a	b	c	d	e	f
$\begin{array}{r} 11 \\ - 5 \\ \hline 6 \end{array}$	$\begin{array}{r} 57 \\ - 35 \\ \hline 22 \end{array}$	$\begin{array}{r} 79 \\ - 37 \\ \hline 42 \end{array}$	$\begin{array}{r} 93 \\ - 7 \\ \hline 86 \end{array}$	$\begin{array}{r} 137 \\ - 51 \\ \hline 86 \end{array}$	$\begin{array}{r} 735 \\ - 579 \\ \hline 156 \end{array}$

5. When you subtract odd from even, is your answer odd or even? odd

6. Try these to check your answer in problem 5.

a	b	c	d	e	f
$\begin{array}{r} 16 \\ - 7 \\ \hline 9 \end{array}$	$\begin{array}{r} 48 \\ - 35 \\ \hline 13 \end{array}$	$\begin{array}{r} 62 \\ - 51 \\ \hline 11 \end{array}$	$\begin{array}{r} 64 \\ - 9 \\ \hline 55 \end{array}$	$\begin{array}{r} 824 \\ - 37 \\ \hline 787 \end{array}$	$\begin{array}{r} 628 \\ - 359 \\ \hline 269 \end{array}$

7. When you subtract even from odd, is your answer odd or even? odd

8. Try these to check your answer in problem 7.

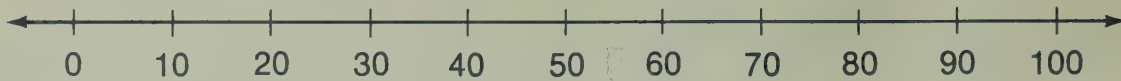
a	b	c	d	e	f
$\begin{array}{r} 13 \\ - 8 \\ \hline 5 \end{array}$	$\begin{array}{r} 37 \\ - 26 \\ \hline 11 \end{array}$	$\begin{array}{r} 95 \\ - 44 \\ \hline 51 \end{array}$	$\begin{array}{r} 71 \\ - 8 \\ \hline 63 \end{array}$	$\begin{array}{r} 357 \\ - 64 \\ \hline 293 \end{array}$	$\begin{array}{r} 931 \\ - 684 \\ \hline 247 \end{array}$

9. Just work the problems that will have odd answers.

a	b	c	d	e
$\begin{array}{r} 531 \\ - 264 \\ \hline 267 \end{array}$	$\begin{array}{r} 642 \\ - 357 \\ \hline 285 \end{array}$	$\begin{array}{r} 579 \\ - 395 \\ \hline \end{array}$	$\begin{array}{r} 884 \\ - 468 \\ \hline \end{array}$	$\begin{array}{r} 155 \\ - 68 \\ \hline 87 \end{array}$



1. Ring the correct answer. Use the number line if you need help.



a Is 21 closer to 20 or 30?

b Is 33 closer to 30 or 40?

c Is 89 closer to 80 or 90?

d Is 64 closer to 60 or 70?

e Is 36 closer to 30 or 40?

f Is 48 closer to 40 or 50?

g Is 77 closer to 70 or 80?

h Is 86 closer to 80 or 90?

2. Write your guess for each problem.

Example

$$\begin{array}{r} 36 \\ + 41 \\ \hline ? \end{array} \quad \begin{array}{r} 40 \\ + 40 \\ \hline 80 \end{array}$$

a

$$\begin{array}{r} 52 \\ + 36 \\ \hline ? \end{array} \quad \begin{array}{r} 50 \\ + 40 \\ \hline 90 \end{array}$$

b

$$\begin{array}{r} 29 \\ + 11 \\ \hline ? \end{array} \quad \begin{array}{r} 30 \\ + 10 \\ \hline 40 \end{array}$$

c

$$\begin{array}{r} 88 \\ + 14 \\ \hline ? \end{array} \quad \begin{array}{r} 90 \\ + 10 \\ \hline 100 \end{array}$$

3. First write your guess.

Then find out how close your guess is to the real answer.

a

$$\begin{array}{r} 78 \\ + 22 \\ \hline 100 \end{array} \quad \begin{array}{r} 80 \\ + 20 \\ \hline 100 \end{array}$$

b

$$\begin{array}{r} 66 \\ + 32 \\ \hline 98 \end{array} \quad \begin{array}{r} 70 \\ + 30 \\ \hline 100 \end{array}$$

c

$$\begin{array}{r} 83 \\ + 58 \\ \hline 141 \end{array} \quad \begin{array}{r} 80 \\ + 60 \\ \hline 140 \end{array}$$

d

$$\begin{array}{r} 35 \\ + 71 \\ \hline 106 \end{array} \quad \begin{array}{r} 40 \\ + 70 \\ \hline 110 \end{array}$$

4. You can do the same thing with subtraction. Try these.

a

$$\begin{array}{r} 67 \\ - 21 \\ \hline 46 \end{array} \quad \begin{array}{r} 70 \\ - 20 \\ \hline 50 \end{array}$$

b

$$\begin{array}{r} 86 \\ - 62 \\ \hline 24 \end{array} \quad \begin{array}{r} 90 \\ - 60 \\ \hline 30 \end{array}$$

c

$$\begin{array}{r} 34 \\ - 18 \\ \hline 16 \end{array} \quad \begin{array}{r} 30 \\ - 20 \\ \hline 10 \end{array}$$

d

$$\begin{array}{r} 193 \\ - 37 \\ \hline 156 \end{array} \quad \begin{array}{r} 200 \\ - 40 \\ \hline 160 \end{array}$$

5. Try these. Find out how close your guess is to the real answer.

a

$$\begin{array}{r} 63 \\ \times 3 \\ \hline 189 \end{array} \quad \begin{array}{r} 60 \\ \times 3 \\ \hline 180 \end{array}$$

b

$$\begin{array}{r} 48 \\ \times 5 \\ \hline 240 \end{array} \quad \begin{array}{r} 50 \\ \times 5 \\ \hline 250 \end{array}$$

c

$$\begin{array}{r} 37 \\ \times 6 \\ \hline 222 \end{array} \quad \begin{array}{r} 40 \\ \times 6 \\ \hline 240 \end{array}$$

d

$$\begin{array}{r} 76 \\ \times 8 \\ \hline 608 \end{array} \quad \begin{array}{r} 80 \\ \times 8 \\ \hline 640 \end{array}$$

Multiply.

a	b	c	d	e	f	g
1. $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$
2. $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$
3. $\begin{array}{r} 70 \\ \times 2 \\ \hline 140 \end{array}$	$\begin{array}{r} 60 \\ \times 6 \\ \hline 360 \end{array}$	$\begin{array}{r} 80 \\ \times 3 \\ \hline 240 \end{array}$	$\begin{array}{r} 90 \\ \times 8 \\ \hline 720 \end{array}$	$\begin{array}{r} 60 \\ \times 7 \\ \hline 420 \end{array}$	$\begin{array}{r} 40 \\ \times 6 \\ \hline 240 \end{array}$	$\begin{array}{r} 90 \\ \times 2 \\ \hline 180 \end{array}$

Try these.

a	b	c	d	e	f
$\begin{array}{r} 62 \\ \times 3 \\ \hline 186 \end{array}$	$\begin{array}{r} 61 \\ \times 8 \\ \hline 488 \end{array}$	$\begin{array}{r} 91 \\ \times 4 \\ \hline 364 \end{array}$	$\begin{array}{r} 52 \\ \times 3 \\ \hline 156 \end{array}$	$\begin{array}{r} 81 \\ \times 5 \\ \hline 405 \end{array}$	$\begin{array}{r} 93 \\ \times 3 \\ \hline 279 \end{array}$
5. $\begin{array}{r} 68 \\ \times 4 \\ \hline 32 \\ 240 \\ \hline 272 \end{array}$	$\begin{array}{r} 37 \\ \times 8 \\ \hline 56 \\ 240 \\ \hline 296 \end{array}$	$\begin{array}{r} 65 \\ \times 5 \\ \hline 25 \\ 300 \\ \hline 325 \end{array}$	$\begin{array}{r} 59 \\ \times 7 \\ \hline 63 \\ 350 \\ \hline 413 \end{array}$	$\begin{array}{r} 34 \\ \times 4 \\ \hline 16 \\ 120 \\ \hline 136 \end{array}$	$\begin{array}{r} 88 \\ \times 6 \\ \hline 48 \\ 480 \\ \hline 528 \end{array}$

Now try these.

a	b	c
6. $5 \times 2 \times 7 = \underline{70}$ $\begin{array}{r} 5 \quad 10 \\ \times 2 \quad \times 7 \\ \hline 10 \quad 70 \end{array}$	$4 \times 3 \times 5 = \underline{60}$ $\begin{array}{r} 4 \quad 12 \\ \times 3 \quad \times 5 \\ \hline 12 \quad 60 \end{array}$	$2 \times 4 \times 6 = \underline{48}$ $\begin{array}{r} 4 \quad 8 \\ \times 2 \quad \times 6 \\ \hline 8 \quad 48 \end{array}$
7. $6 \times 2 \times 7 = \underline{84}$ $\begin{array}{r} 6 \quad 12 \\ \times 2 \quad \times 7 \\ \hline 12 \quad 84 \end{array}$	$1 \times 8 \times 9 = \underline{72}$ $\begin{array}{r} 1 \quad 8 \\ \times 8 \quad \times 9 \\ \hline 8 \quad 72 \end{array}$	$3 \times 9 \times 2 = \underline{54}$ $\begin{array}{r} 3 \quad 27 \\ \times 9 \quad \times 2 \\ \hline 27 \quad 54 \end{array}$
8. $3 \times 5 \times 7 = \underline{105}$ $\begin{array}{r} 3 \quad 15 \\ \times 5 \quad \times 7 \\ \hline 15 \quad 105 \end{array}$	$5 \times 4 \times 6 = \underline{120}$ $\begin{array}{r} 5 \quad 20 \\ \times 4 \quad \times 6 \\ \hline 20 \quad 120 \end{array}$	$6 \times 8 \times 4 = \underline{192}$ $\begin{array}{r} 6 \quad 48 \\ \times 8 \quad \times 4 \\ \hline 48 \quad 192 \end{array}$

Multiply and divide.

a	b	c
1. $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 8 \\ 3 \overline{)24} \end{array}$	$\begin{array}{r} 3 \\ 8 \overline{)24} \end{array}$
3. $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$	$\begin{array}{r} 5 \\ 7 \overline{)35} \end{array}$
5. $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 2 \\ 9 \overline{)18} \end{array}$	$\begin{array}{r} 9 \\ 2 \overline{)18} \end{array}$

a	b	c
2. $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$	$\begin{array}{r} 6 \\ 2 \overline{)12} \end{array}$	$\begin{array}{r} 2 \\ 6 \overline{)12} \end{array}$
4. $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 4 \\ 8 \overline{)32} \end{array}$	$\begin{array}{r} 8 \\ 4 \overline{)32} \end{array}$
6. $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 6 \\ 4 \overline{)24} \end{array}$	$\begin{array}{r} 4 \\ 6 \overline{)24} \end{array}$

Write two division problems for each multiplication problem.  
Solve your division problems.

7. $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$	a $\begin{array}{r} 9 \\ 4 \overline{)36} \end{array}$	b $\begin{array}{r} 4 \\ 9 \overline{)36} \end{array}$	8. $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	a $\begin{array}{r} 7 \\ 3 \overline{)21} \end{array}$	b $\begin{array}{r} 3 \\ 7 \overline{)21} \end{array}$
9. $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	a $\begin{array}{r} 6 \\ 9 \overline{)54} \end{array}$	b $\begin{array}{r} 9 \\ 6 \overline{)54} \end{array}$	10. $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	a $\begin{array}{r} 8 \\ 9 \overline{)72} \end{array}$	b $\begin{array}{r} 9 \\ 8 \overline{)72} \end{array}$
11. $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$	a $\begin{array}{r} 9 \\ 7 \overline{)63} \end{array}$	b $\begin{array}{r} 7 \\ 9 \overline{)63} \end{array}$	12. $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	a $\begin{array}{r} 5 \\ 9 \overline{)45} \end{array}$	b $\begin{array}{r} 9 \\ 5 \overline{)45} \end{array}$

13. Write a multiplication problem and two division problems for each set of number tiles.

a

32

8

4

$$\begin{array}{l} \frac{8}{\text{or } 4} \times \frac{4}{8} = \frac{32}{32} \\ \begin{array}{r} 8 \\ 4 \overline{)32} \end{array} \quad \begin{array}{r} 4 \\ 8 \overline{)32} \end{array} \end{array}$$

b

6

30

5

$$\begin{array}{l} \frac{6}{\text{or } 5} \times \frac{5}{6} = \frac{30}{30} \\ \begin{array}{r} 5 \\ 6 \overline{)30} \end{array} \quad \begin{array}{r} 6 \\ 5 \overline{)30} \end{array} \end{array}$$



1. Sue's club kept a record of how many pages they read in their library books. Complete the chart to show how many pages each member read each day.

Member	Total pages read	Number of days they read	Number of pages read each day
Sue	54	9	a <u>6</u>
Pam	36	6	b <u>6</u>
Tom	21	3	c <u>7</u>
Bill	56	7	d <u>8</u>
Larry	24	8	e <u>3</u>
Pat	40	5	f <u>8</u>
Jo	48	6	g <u>8</u>

2. Estimate to answer these questions about Bill's family. There are 6 people in Bill's family.

a Bill's mother bought 14 cards. Could each person in Bill's family have 2 cards? Yes

b They went to a fair. Bill's father bought 34 ride tickets. Could each person in the family have 5 tickets? Yes

c Bill bought 17 apples. Could each member of Bill's family have 3 apples? No

d Bill drew 5 pictures. Could each member of Bill's family have 1 picture? No

3. If each box holds 8 balls

a Will 16 balls fill 2 boxes? Yes

b Will 30 balls fill 5 boxes? No

c Will 50 balls fill 7 boxes? No

d Will 60 balls fill 8 boxes? No

e Will 75 balls fill 9 boxes? Yes

f Will 25 balls fill 3 boxes? Yes

4. a Each box holds 5 balls. How many boxes will 25 balls fill? 5

b Each box holds 4 balls. How many boxes will 36 balls fill? 9

c Each box holds 6 balls. How many boxes will 30 balls fill? 5

Divide.

a	b	c	d	e
1. $1 \overline{)7}$ <sup>7</sup>	$2 \overline{)14}$ <sup>7</sup>	$2 \overline{)18}$ <sup>9</sup>	$3 \overline{)6}$ <sup>2</sup>	$4 \overline{)36}$ <sup>9</sup>
2. $5 \overline{)0}$ <sup>0</sup>	$7 \overline{)35}$ <sup>5</sup>	$2 \overline{)4}$ <sup>2</sup>	$8 \overline{)24}$ <sup>3</sup>	$9 \overline{)54}$ <sup>6</sup>
3. $6 \overline{)36}$ <sup>6</sup>	$5 \overline{)30}$ <sup>6</sup>	$3 \overline{)9}$ <sup>3</sup>	$6 \overline{)6}$ <sup>1</sup>	$5 \overline{)10}$ <sup>2</sup>
4. $5 \overline{)40}$ <sup>8</sup>	$6 \overline{)18}$ <sup>3</sup>	$1 \overline{)4}$ <sup>4</sup>	$1 \overline{)6}$ <sup>6</sup>	$7 \overline{)63}$ <sup>9</sup>
5. $9 \overline{)45}$ <sup>5</sup>	$8 \overline{)64}$ <sup>8</sup>	$5 \overline{)25}$ <sup>5</sup>	$4 \overline{)28}$ <sup>7</sup>	$5 \overline{)35}$ <sup>7</sup>
6. $5 \overline{)20}$ <sup>4</sup>	$1 \overline{)2}$ <sup>2</sup>	$8 \overline{)72}$ <sup>9</sup>	$1 \overline{)1}$ <sup>1</sup>	$8 \overline{)56}$ <sup>7</sup>

7. Look at the example. Then complete the division problems.

Example

$4 \overline{)32}$ <sup>8</sup>	$4 \overline{)320}$ <sup>80</sup>	a $7 \overline{)7}$ <sup>1</sup>	$7 \overline{)70}$ <sup>10</sup>	b $2 \overline{)6}$ <sup>3</sup>	$2 \overline{)60}$ <sup>30</sup>
c $3 \overline{)27}$ <sup>9</sup>	$3 \overline{)270}$ <sup>90</sup>	d $4 \overline{)12}$ <sup>3</sup>	$4 \overline{)120}$ <sup>30</sup>	e $7 \overline{)56}$ <sup>8</sup>	$7 \overline{)560}$ <sup>80</sup>
f $7 \overline{)49}$ <sup>7</sup>	$7 \overline{)490}$ <sup>70</sup>	g $7 \overline{)28}$ <sup>4</sup>	$7 \overline{)280}$ <sup>40</sup>	h $6 \overline{)54}$ <sup>9</sup>	$6 \overline{)540}$ <sup>90</sup>

8. Try these. Be careful.

a $2 \overline{)40}$ <sup>20</sup>	b $6 \overline{)420}$ <sup>70</sup>	c $7 \overline{)210}$ <sup>30</sup>	d $9 \overline{)90}$ <sup>10</sup>	e $8 \overline{)400}$ <sup>50</sup>
------------------------------------	-------------------------------------	-------------------------------------	------------------------------------	-------------------------------------

Compute.

a	b	c	d	e	f
1. $\begin{array}{r} 34 \\ + 67 \\ \hline 101 \end{array}$	$\begin{array}{r} 78 \\ + 93 \\ \hline 171 \end{array}$	$\begin{array}{r} 158 \\ + 34 \\ \hline 192 \end{array}$	$\begin{array}{r} 338 \\ + 96 \\ \hline 434 \end{array}$	$\begin{array}{r} 662 \\ + 28 \\ \hline 690 \end{array}$	$\begin{array}{r} 543 \\ + 250 \\ \hline 793 \end{array}$
2. $\begin{array}{r} 50 \\ - 17 \\ \hline 33 \end{array}$	$\begin{array}{r} 97 \\ - 68 \\ \hline 29 \end{array}$	$\begin{array}{r} 157 \\ - 60 \\ \hline 97 \end{array}$	$\begin{array}{r} 370 \\ - 94 \\ \hline 276 \end{array}$	$\begin{array}{r} 440 \\ - 49 \\ \hline 391 \end{array}$	$\begin{array}{r} 269 \\ - 154 \\ \hline 115 \end{array}$
3. $\begin{array}{r} 319 \\ - 176 \\ \hline 143 \end{array}$	$\begin{array}{r} 173 \\ + 388 \\ \hline 561 \end{array}$	$\begin{array}{r} 483 \\ + 164 \\ \hline 647 \end{array}$	$\begin{array}{r} 894 \\ - 397 \\ \hline 497 \end{array}$	$\begin{array}{r} 293 \\ + 268 \\ \hline 561 \end{array}$	$\begin{array}{r} 771 \\ - 408 \\ \hline 363 \end{array}$

Multiply.

a	b	c	d	e	f
4. $\begin{array}{r} 63 \\ \times 3 \\ \hline 189 \end{array}$	$\begin{array}{r} 24 \\ \times 2 \\ \hline 48 \end{array}$	$\begin{array}{r} 71 \\ \times 7 \\ \hline 497 \end{array}$	$\begin{array}{r} 56 \\ \times 1 \\ \hline 56 \end{array}$	$\begin{array}{r} 82 \\ \times 4 \\ \hline 328 \end{array}$	$\begin{array}{r} 53 \\ \times 3 \\ \hline 159 \end{array}$
5. $\begin{array}{r} 38 \\ \times 6 \\ \hline 228 \end{array}$	$\begin{array}{r} 43 \\ \times 8 \\ \hline 344 \end{array}$	$\begin{array}{r} 97 \\ \times 4 \\ \hline 388 \end{array}$	$\begin{array}{r} 88 \\ \times 9 \\ \hline 792 \end{array}$	$\begin{array}{r} 64 \\ \times 5 \\ \hline 320 \end{array}$	$\begin{array}{r} 84 \\ \times 7 \\ \hline 588 \end{array}$

Divide.

a	b	c	d	e	f
6. $\begin{array}{r} 7 \\ 4 \overline{)28} \end{array}$	$\begin{array}{r} 7 \\ 7 \overline{)49} \end{array}$	$\begin{array}{r} 9 \\ 6 \overline{)54} \end{array}$	$\begin{array}{r} 7 \\ 8 \overline{)56} \end{array}$	$\begin{array}{r} 90 \\ 9 \overline{)810} \end{array}$	$\begin{array}{r} 60 \\ 8 \overline{)480} \end{array}$

Tell which unit is the right one.

metres or centimetres

7. a room's width

430 centimetres

8. Tom's height

120 centimetres

9. an apartment building's height

15 metres



1. Show you remember the numbers between 196 and 205.

196, 197, 198, 199, 200, 201, 202, 203, 204, 205

2. Show you remember the numbers between 1496 and 1502.

1496, 1497, 1498, 1499, 1500, 1501, 1502

3. Show how well you know how to add.

$$\begin{array}{r} \text{a} \quad 412 \\ + 163 \\ \hline 575 \end{array}$$

$$\begin{array}{r} \text{b} \quad 716 \\ + 148 \\ \hline 864 \end{array}$$

$$\begin{array}{r} \text{c} \quad 596 \\ + 137 \\ \hline 733 \end{array}$$

$$\begin{array}{r} \text{d} \quad 23 \\ 12 \\ + 53 \\ \hline 88 \end{array}$$

$$\begin{array}{r} \text{e} \quad 33 \\ 23 \\ + 11 \\ \hline 67 \end{array}$$

4. Show how well you know how to subtract.

$$\begin{array}{r} \text{a} \quad 967 \\ - 311 \\ \hline 656 \end{array}$$

$$\begin{array}{r} \text{b} \quad 893 \\ - 717 \\ \hline 176 \end{array}$$

$$\begin{array}{r} \text{c} \quad 525 \\ - 347 \\ \hline 178 \end{array}$$

$$\begin{array}{r} \text{d} \quad 609 \\ - 315 \\ \hline 294 \end{array}$$

$$\begin{array}{r} \text{e} \quad 904 \\ - 257 \\ \hline 647 \end{array}$$

5. Multiply.

$$\begin{array}{r} \text{a} \quad 0 \\ \times 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} \text{b} \quad 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} \text{c} \quad 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} \text{d} \quad 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} \text{e} \quad 6 \\ \times 9 \\ \hline 54 \end{array}$$

$$\begin{array}{r} \text{f} \quad 80 \\ \times 6 \\ \hline 480 \end{array}$$

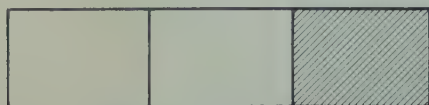
$$\begin{array}{r} \text{g} \quad 62 \\ \times 3 \\ \hline 186 \end{array}$$

$$\begin{array}{r} \text{h} \quad 82 \\ \times 4 \\ \hline 328 \end{array}$$

$$\begin{array}{r} \text{i} \quad 39 \\ \times 5 \\ \hline 195 \end{array}$$

$$\begin{array}{r} \text{j} \quad 76 \\ \times 6 \\ \hline 456 \end{array}$$

6. What fraction is shaded in each of these figures?



$$\text{a} \quad \frac{1}{3}$$



$$\text{b} \quad \frac{3}{4}$$

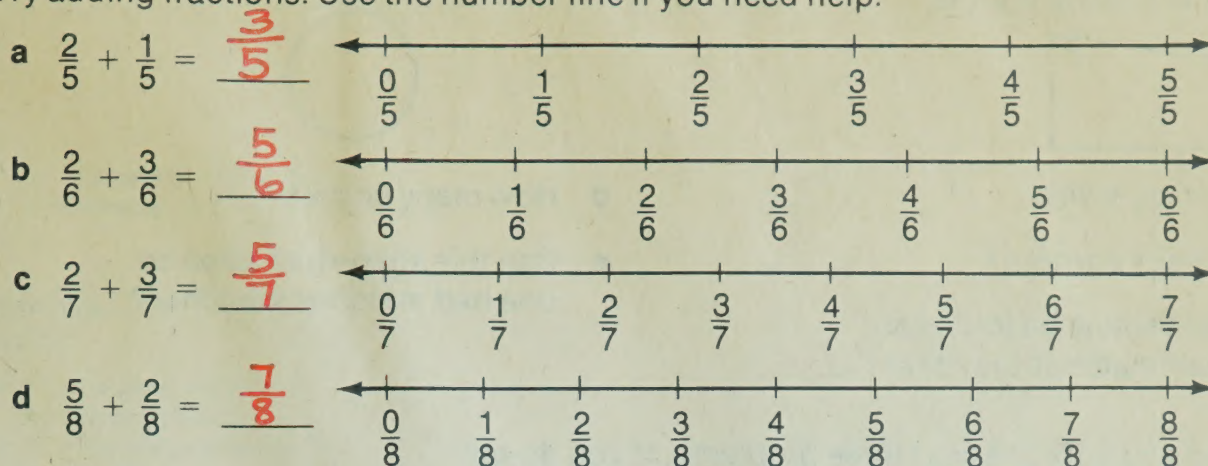


$$\text{c} \quad \frac{2}{5}$$



$$\text{d} \quad \frac{5}{6}$$

1. Try adding fractions. Use the number line if you need help.



2. Use the symbols  $>$ ,  $<$ , and  $=$  to make these sentences true.

a  $3962 \text{ (} = \text{)} 3962$

b  $\frac{4}{4} \text{ (} > \text{)} \frac{3}{4}$

c  $3 \text{ (} > \text{)} 0$

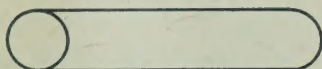
d  $\frac{1}{5} \text{ (} < \text{)} \frac{3}{5}$

e  $(4 + 2) + 5 \text{ (} = \text{)} 4 + (2 + 5)$

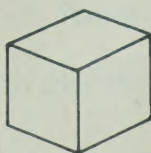
f  $342 + 526 \text{ (} = \text{)} 526 + 342$

3. Look at these shapes.

x



y



z

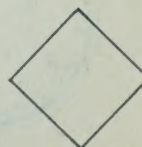


a Which has both flat and curved surfaces? X

b Which has flat surfaces but no curved surfaces? Y

c Which has a curved surface but no flat surfaces? Z

4. Look at these plane figures.



a How many sides? 3

d How many sides? 4

b How many corners? 3

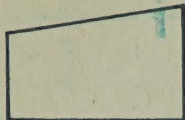
e How many corners? 4

c Can this figure be folded so one half matches the other? Yes

f Can this figure be folded so one half matches the other? Yes



1. Look at these plane figures.



a How many sides?

4

d How many corners?

0

b How many corners?

4

e Can this shape be folded so one half matches the other?

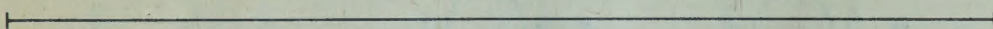
Yes

c Can this shape be folded so one half matches the other?

No

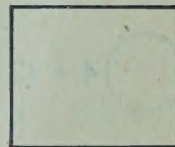
You will need a rule for the next three problems. If you do not have a rule, cut out the one at the bottom of the page.

2. Is the line segment below 12 cm or 13 cm long? 13 cm



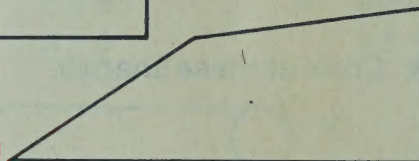
3. a How many centimetres long is one side? 2 cm

b How many centimetres around the whole thing? 8 cm



4. a How many centimetres is the longest side? 5 cm

b About how many centimetres around the whole thing? 13 cm



5. Is your finger between 4 cm and 8 cm long or between 4 km and 8 km long? 4 cm and 8 cm

6. Is the mass of most books between 200 g and 1200 g or between 200 kg and 1200 kg?

200 g and 1200 g

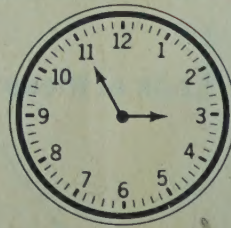
7. What time do these clocks show?



a 6:15



b 9:35



c 2:55

centimetres

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16





\*000020890893\*

- ☐ indicates a Checkout page.  
• indicates a Progress Check page.

# INDEX

PRACTICE SHEET	TITLE	TEXT PAGE	PRACTICE SHEET	TITLE	TEXT PAGE
• 1	Practising addition facts	9	42	Adding two 3-digit numbers	168
2	Word problems	13	43	More addition practice	169
• 3	Practising subtraction facts	15	44	Subtracting two 3-digit numbers	177
4	Adding numbers without renaming	20	<input type="checkbox"/> 45	Reviewing addition and subtraction	178
• 5	Addition with renaming	23	46	Measuring with units of measure	187
• 6	Subtraction without renaming	26	47	Understanding units of measure	194
7	Subtraction with renaming	29	<input type="checkbox"/> 48	Reviewing measurement concepts	196
• 8	Subtraction with renaming	33	49	Understanding fractions	206
<input type="checkbox"/> 9	Practising addition and subtraction with renaming	36	50	Comparison of fractions, equivalent fractions	208
10	Understanding multiplication	46	51	More about fractions	211
11	Multiplication facts	50	52	Adding and subtracting fractions	215
<input type="checkbox"/> 12	Multiplication facts	51	<input type="checkbox"/> 53	Reviewing fractions	216
13	Place value and comparing numbers	59	54	Missing factors in multiplication	222
• 14	Addition with renaming	63	55	Relating multiplication and division	224
15	Adding 3-digit numbers	67	56	Exp	
• 16	Adding 3-digit numbers again	68	57		
<input type="checkbox"/> 17	Practising more addition	72	<input type="checkbox"/> 58		
18	Identifying surfaces	77	59		
<input type="checkbox"/> 19	Exploring shapes	83	60		
20	Reviewing subtraction	86	<input type="checkbox"/> 61		
21	Subtraction without renaming again	91	62		
22	Subtraction with renaming	96	63		
23	More subtraction with renaming	99	<input type="checkbox"/> 64		
24	Subtraction with renaming in hundreds, tens, and ones	103	65		
25	Subtraction practice	107	66		
<input type="checkbox"/> 26	Reviewing subtraction	108	67		
27	Exploring shapes	113	• 68		
28	Determining symmetry	117	<input type="checkbox"/> 69		
<input type="checkbox"/> 29	Finding lines of symmetry	118	70		
30	Practising multiplication facts 5 through 9	124	71		
31	Multiplication fact pairs	127	72		
• 32	Checking multiplication facts	130	73		
• 33	Multiplication without renaming	136	74		
34	Multiplication with renaming	139	75		
• 35	Multiplication with renaming	140	76		
<input type="checkbox"/> 36	Practising multiplication	144	77		
37	Place value	151			
38	Reviewing addition and subtraction facts	154	<input type="checkbox"/> 78		
39	Adding and subtracting without renaming	158	<input type="checkbox"/> 79		
• 40	Addition with renaming again	163	<input type="checkbox"/> 80		
• 41	Subtraction with renaming again	164			

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